

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
PLANS FOR

**PROPOSED FEDERAL AID HIGHWAY**

**F.A.P. ROUTE 339 / F.A.U. ROUTE 3514 (ALGONQUIN ROAD)  
IL ROUTE 53 TO ARLINGTON HEIGHTS ROAD**

**STREET LIGHTING**

**SECTION 09-00100-00-LT**

**PROJECT NO: ARA-M-9003(472)**

**CITY OF ROLLING MEADOWS**

**VILLAGE OF ARLINGTON HEIGHTS**

**COOK COUNTY**

**C-91-053-10**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	09-00100-00-LT	COOK	64	1
FED. ROAD DIST. NO. 1	ILLINOIS	CONTRACT NO.	63426	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

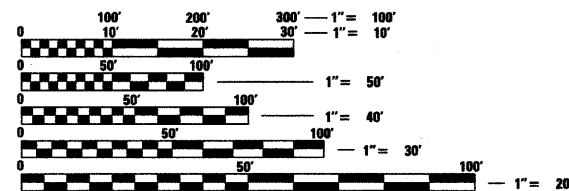
THESE IMPROVEMENTS ARE LOCATED WITHIN  
THE CITY OF ROLLING MEADOWS AND VILLAGE OF ARLINGTON HEIGHTS

**TRAFFIC DATA**

**ALGONQUIN ROAD**  
2006 ADT - 32,700  
POSTED SPEED LIMIT - 35 MPH  
DESIGN DESIGNATION: PRINCIPAL ARTERIAL

**GOLF ROAD**  
2006 ADT - 35,000  
POSTED SPEED LIMIT - 40 MPH  
DESIGN DESIGNATION: PRINCIPAL ARTERIAL

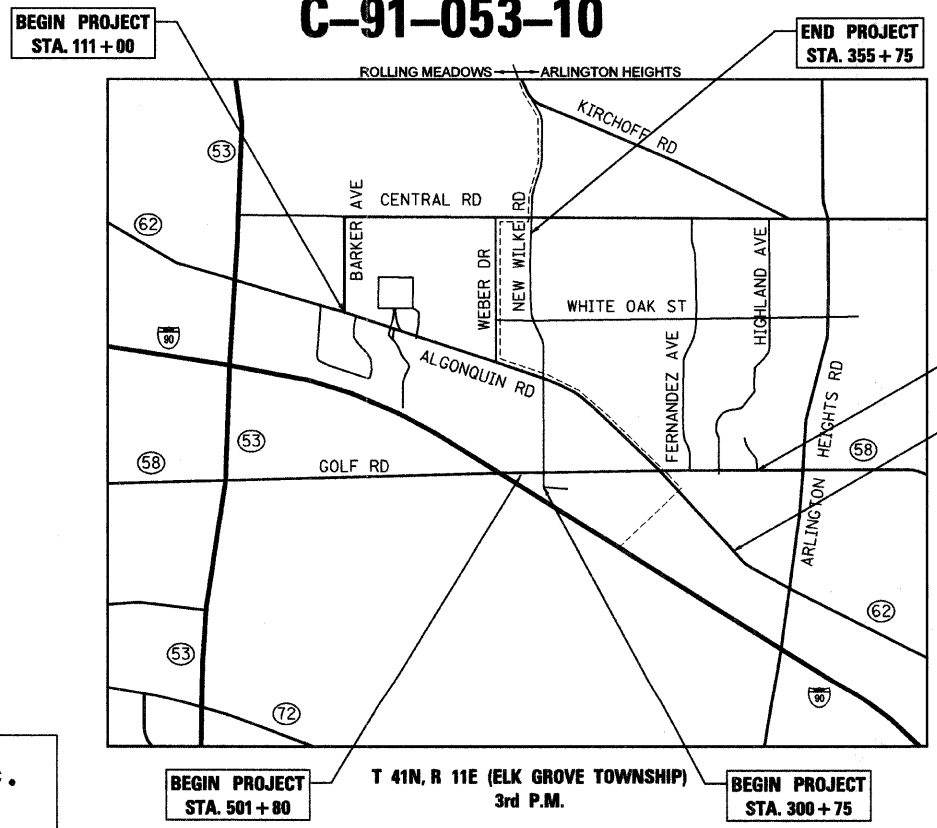
**NEW WILKE ROAD**  
2006 ADT - 20,200  
POSTED SPEED LIMIT - 30 MPH  
DESIGN DESIGNATION: URBAN COLLECTOR



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

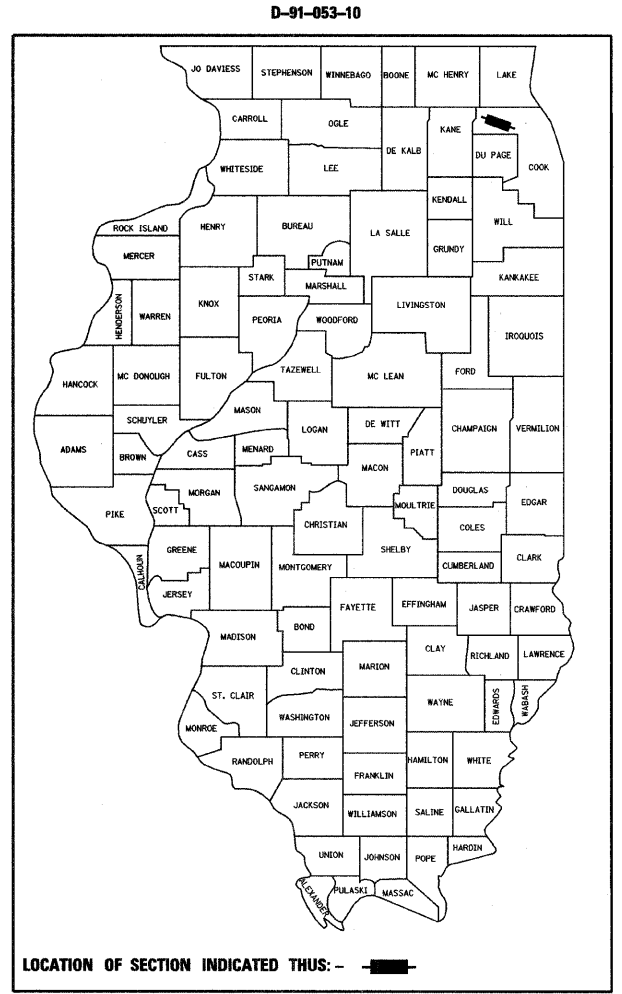
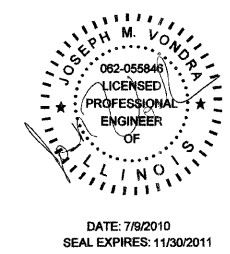
J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

**Clorba Group, Inc.**  
DESIGN FIRM  
REGISTRATION NUMBER  
184-001016  
CONSULTING ENGINEERS  
SUITE 402, 5507 NORTH CUMBERLAND AVE  
CHICAGO, ILLINOIS 60656 ☎ (773) 775-4009



BEGIN PROJECT STA. 111+00  
END PROJECT STA. 355+75  
T 41N, R 11E (ELK GROVE TOWNSHIP)  
3rd P.M.  
LOCATION MAP  
1" = 2,000'

GROSS AND NET LENGTH OF PROJECT = 21,750 FT = 4.12 MI



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
APPROVED *Fred A. Vogt* 7/9/10  
CITY OF ROLLING MEADOWS, DIRECTOR OF PUBLIC WORKS  
PASSED *John A. Heston* July 19, 2010  
DISTRICT 1 ENGINEER OF LOCAL ROAD & STREETS  
RELEASING FOR BID BASED ON LIMITED REVIEW *Dianna M. O'Keefe* July 15, 2010  
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

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PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. (847)705-4406

CONTRACT NO. 63426

DATE: 7/9/2010  
SEAL EXPIRES: 11/30/2011

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**LIST OF HIGHWAY STANDARDS**

- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 701602-04 URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
- 701606-06 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701801-04 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- 701901-01 TRAFFIC CONTROL DEVICES
- 814001-02 HANDHOLES

**GENERAL NOTES**

1. ALL CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS AS WELL AS:  
ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS ADOPTED JANUARY 1, 2007.  
ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (LATEST EDITION IN EFFECT ON THE DATE OF INVITATION FOR BIDS)  
NATIONAL ELECTRIC CODE, 2008 EDITION.  
DISTRICT ONE RECURRING SPECIAL PROVISIONS FOR ROADWAY LIGHTING, ADOPTED: JANUARY 1, 2010.
2. ALL UNDERGROUND UTILITY LOCATIONS, INCLUDING SANITARY SEWERS, STORM SEWERS, WATER MAINS, AND THEIR SERVICE LINES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE RESPECTIVE UTILITY COMPANIES FIELD-LOCATE ALL UTILITIES, ASCERTAIN THEIR STATUS AND ADJUST OR RELOCATE THESE UTILITIES, AS NECESSARY, PRIOR TO STARTING CONSTRUCTION. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT. THE CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITIES BEFORE STARTING CONSTRUCTION, INCLUDING, BUT NOT LIMITED TO:

NICOR GAS 1844 FERRY ROAD NAPERVILLE, IL 60563 (630) 388-2362	COMCAST 688 INDUSTRIAL DRIVE ELMHURST, IL 60126 (630) 600-6352
COMED 1500 FRANKLIN BLVD LIBERTYVILLE, IL 60048 (630) 437-2236	CITY OF ROLLING MEADOWS PUBLIC WORKS 3900 BERDNICK STREET ROLLING MEADOWS, IL 60008
AT&T 2004 MINER STREET DES PLAINES, IL 60016 (847) 759-5581	VILLAGE OF ARLINGTON HEIGHTS PUBLIC WORKS 33 SOUTH ARLINGTON HEIGHTS ROAD ARLINGTON HEIGHTS, IL 60005

3. THE MUNICIPALITIES' DEPARTMENT OF PUBLIC WORKS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCING CONSTRUCTION.
5. THE DIMENSIONS AND LOCATIONS OF UTILITY FACILITIES AS SHOWN ON THESE PLANS ARE AN ESTIMATE FOR DESIGN PURPOSES ONLY, AND ARE NOT INTENDED FOR USE AS FIELD LOCATIONS FOR CONSTRUCTION. BEFORE BEGINNING ANY DIGGING OR EXCAVATION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT J.U.L.I.E. AT 1-800-892-0123 TO VERIFY UTILITY LOCATIONS.

6. THE CONTRACTOR SHALL MAINTAIN A SET OF CONSTRUCTION RECORD DRAWINGS NOTING ALL CHANGES TO THE PLANS AND THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES ENCOUNTERED. A MYLAR REPRODUCIBLE AS-BUILT DRAWING AND TWO (2) PAPER SETS MUST BE SUBMITTED TO EACH DEPARTMENT OF PUBLIC WORKS FOR REVIEW AND APPROVAL UPON COMPLETION OF THE PROJECT. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF MOBILIZATION.
7. ANY SIGN LOCATED IN THE PUBLIC RIGHT-OF-WAY WHICH INTERFERES WITH THE CONSTRUCTION OF THE PROPOSED LIGHTING SYSTEM SHALL BE REMOVED AND RE-ERECTED. ALL WORK INVOLVING SIGN REMOVAL AND RE-ERECTION SHALL BE GOVERNED BY THE FOLLOWING REQUIREMENTS:  
A. A SIGN LOG SHALL BE CREATED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. A COPY SHALL BE GIVEN TO THE ENGINEER FOR REVIEW. UPON REVIEW BY THE ENGINEER, THE CONTRACTOR SHALL PROVIDE A COPY TO IDOT AND EACH MUNICIPALITY.  
B. REMOVAL AND RE-ERECTION SHALL BE COORDINATED WITH IDOT.  
C. SIGNS SHALL NOT BE MOVED UNTIL PROGRESS OF WORK NECESSITATES IT.  
D. EVERY SIGN REMOVED MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND BE VISIBLE TO TRAFFIC FOR WHICH IT WAS INTENDED. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING.  
E. ALL SIGNS SHALL BE RE-ERECTED IN THE ORIGINAL LOCATION AS THE IMPROVEMENTS ARE COMPLETED.  
F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SIGNS DAMAGED BY HIS/HER CONSTRUCTION ACTIVITIES AND WILL REPLACE THEM AT NO COST TO THE MUNICIPALITY. THIS WORK SHALL BE INCLUDED IN THE CONTRACT.  
G. STREET SIGNS TEMPORARILY RELOCATED DURING CONSTRUCTION MAY BE ATTACHED TO THE NEW STREET LIGHTS WITH THE APPROVAL OF THE MUNICIPALITY.

8. THE CONTRACTOR WILL CONFINE HIS OPERATIONS TO WITHIN THE AREAS DESIGNATED BY THE ENGINEER IN THE FIELD. DAMAGE TO PROPERTY OUTSIDE OF THESE LIMITS WILL BE RESTORED TO THE CONDITION THAT EXISTED PRIOR TO THE PROJECT AND SHALL BE INCLUDED IN THE CONTRACT. ANY AREAS WITHIN THE MUNICIPALITY RIGHT OF WAY SHALL BE REPLACED WITH SOD.
9. THE CONTRACTOR SHALL PROTECT ALL TREES AND SHRUBS ADJACENT TO THE PROJECT DURING CONSTRUCTION OPERATIONS, IN ACCORDANCE WITH SECTION 201 OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS AND AS INDICATED ON THE PLAN. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT BE CONSIDERED INCLUDED IN THE CONTRACT.
10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN SATISFACTORY DRAINAGE OF THE PROJECT SITE AND THOSE AREAS THAT PRESENTLY DRAIN THROUGH THE PROJECT SITE AT ALL TIMES DURING THE CONSTRUCTION PERIOD. THE COST OF PROVIDING, INSTALLING AND MAINTAINING THESE MEASURES SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN ALL DRAINAGE STRUCTURES OF ALL DEBRIS ACCUMULATED DURING CONSTRUCTION OPERATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT.
12. NO CONSTRUCTION MATERIALS OR EQUIPMENT SHALL BE STORED IN OR MOVED THROUGH THE DRIPLINE OF ANY PARKWAY TREE. IF THIS CLEARANCE CANNOT BE MAINTAINED, THE FORESTRY SUPERINTENDANT MUST BE NOTIFIED PRIOR TO CONSTRUCTION.
13. THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY AT 847-715-8419 AT LEAST (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.

**ROADWAY LIGHTING NOTES**

1. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO ARTICLE 801.04 OF THE STANDARD SPECIFICATIONS REGARDING THE PROPOSED LOCATIONS OF THE LIGHTING SYSTEM. ADDITIONALLY, THE UNIT DUCT ROUTING SHOWN ON THE PLANS IS MAINLY INTENDED TO SHOW ELECTRICAL CIRCUITRY. AN EFFORT HAS BEEN MADE TO AVOID UTILITY CONFLICTS BUT THE EXACT LOCATION OF ELECTRICAL CABLES AND CONDUITS SHOULD BE APPROVED BY THE ENGINEER AFTER THE UNDERGROUND UTILITIES HAVE BEEN LOCATED BY ITS OWNER.
2. ALL PROPOSED LIGHT POLE LOCATIONS SHALL BE STAKED BY THE CONTRACTOR AND BE APPROVED BY THE MUNICIPALITIES PRIOR TO EXCAVATION. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR THIS STAKING.
3. THE CONTRACTOR SHALL KEEP DEVIATIONS FROM THE UNIT DUCT ROUTING SHOWN ON THE PLANS TO A MINIMUM. MAJOR DEVIATIONS SHALL BE REPORTED TO AND APPROVED BY THE ENGINEER BEFORE INSTALLATION.
4. SHORT RUNS OF UNIT DUCT (FOR ROADWAY LIGHTING) MAY BE TRENCHED AT THE DISCRETION OF THE MUNICIPALITY. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR TRENCHING THE UNIT DUCT.
5. WEEKDAY CONSTRUCTION ACTIVITY THAT WILL NECESSITATE LANE CLOSURES IN ACCORDANCE WITH STANDARD 701606 OR STANDARD 701801 MUST BE LIMITED TO THE HOURS BETWEEN 9:00 A.M. AND 3:00 P.M. IN ORDER TO AVOID THE PEAK RUSH HOURS.
6. THE REMOVAL LIMITS OF SIDEWALK SHOULD BE LOCATED AT AN EXISTING JOINT.
7. REMOVAL OF THE EXISTING LIGHTING SYSTEM SHALL NOT BEGIN BEFORE THE PROPOSED LIGHTING SYSTEM IS OPERATIONAL. THE CONTRACTOR SHALL NOTIFY COMMONWEALTH EDISON WHEN THE PROPOSED LIGHTING SYSTEM WILL BE OPERATIONAL SO REMOVAL OF COMMONWEALTH EDISON LUMINAIRES AND MAST ARMS MAY COMMENCE.
8. THE ENGINEER SHALL APPROVE THE LOCATION OF ALL PUSH PITS. NO POLES SHALL BE ERRECTED UNTIL THE RESPECTIVE CONCRETE FOUNDATIONS HAVE CURED. NO UNDERGROUND SPLICES ARE ALLOWED.
9. ALL LIGHT POLE FOUNDATIONS SHALL HAVE A MINIMUM OF TWO RACEWAYS, EVEN IF ONLY ONE UNIT DUCT CONNECTION IS SHOWN ON THE PLANS. THE ADDITION OF A THIRD RACEWAY TO A FOUNDATION SHALL BE INCLUDED IN THE COST OF THE LIGHT POLE FOUNDATION.
10. SPLICES TO EXISTING CONDUCTORS SHALL BE INCLUDED IN THE COST OF UNIT DUCT.
11. THE CONTRACTOR SHALL REQUEST THAT THE CITY/VILLAGE REMOVE BANNERS FROM THE EXISTING POLES 48 HOURS BEFORE REMOVAL OF THE POLES.
12. UNDERGROUND SPLICES ARE NOTE ALLOWED.

FILE NAME = m:\b\c\3379\design\Proposed\lan\3379-02-General Notes.dgn



**Ciorba Group, Inc.**  
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Chicago, Illinois 60656  
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = jvondra	DESIGNED - RJR	REVISED -
	DRAWN - RJR	REVISED -
PLOT SCALE = 1,0000' / IN.	CHECKED - JMV	REVISED -
PLOT DATE = 7/13/2010	DATE - 6/16/2010	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES**

SCALE: SHEET NO. 2 OF 64 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	09-00100-00-LT	COOK	64	2
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES				TOTAL QUANTITY	CONSTRUCTION TYPE CODE
CODE NO.	DESCRIPTION	UNIT	LIGHTING (Y030-1D)		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	4,400	4400	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	55	55	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	55	55	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	55	55	
25200100	SODDING	SQ YD	4,400	4400	
25200200	SUPPLEMENTAL WATERING	UNIT	14	14	
* 35100700	AGGREGATE BASE COURSE, TYPE A 8"	SQ YD	500	500	
* 40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	45	45	
* 40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	25	25	
* 42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	250	250	
* 42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	5,100	5100	
* 42400800	DETECTABLE WARNINGS	SQ FT	50	50	
* 44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	500	500	
* 44000600	SIDEWALK REMOVAL	SQ FT	5,100	5100	
* 66900205	SPECIAL WASTE DISPOSAL	CU YD	50	50	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12	
67100100	MOBILIZATION	L SUM	1	1	
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1	
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	
80400100	ELECTRIC SERVICE INSTALLATION	EACH	3	3	
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1	1	
81018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	350	350	
81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	8,400	8400	
81400100	HANDHOLE	EACH	8	8	
81603215	UNIT DUCT, 600V, 4-1C NO.2, 1/C NO.4 GROUND, (EPR-TYPE RHW), 1 1/2" DIA. POLYETHYLENE	FOOT	41,300	41300	
81700125	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 1/C NO. 4	FOOT	3,400	3400	
81700130	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 1/C NO. 2	FOOT	17,000	17000	
81702170	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2/0	FOOT	1,200	1200	
81702200	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 250MCM	FOOT	900	900	

\* DENOTES SPECIALTY ITEM

SUMMARY OF QUANTITIES				TOTAL QUANTITY	CONSTRUCTION TYPE CODE
CODE NO.	DESCRIPTION	UNIT	LIGHTING (Y030-1D)		
82102150	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 150 WATT	EACH	21	21	
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	188	188	
82500505	LIGHTING CONTROLLER, SPECIAL	EACH	3	3	
83006300	LIGHT POLE, ALUMINUM, 30 FT. M.H., 8 FT. MAST ARM	EACH	3	3	
83006500	LIGHT POLE, ALUMINUM, 30 FT. M.H., 12 FT. MAST ARM	EACH	12	12	
83050800	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 12 FT. MAST ARM	EACH	188	188	
83013100	LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN	EACH	1	1	
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	180	180	
83600215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	720	720	
83800505	BREAKAWAY DEVICE, COUPLING, WITH ALUMINUM SKIRT	EACH	204	204	
84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	22	22	
84200600	REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE	EACH	19	19	
84200804	REMOVAL OF POLE FOUNDATION	EACH	43	43	
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	3	3	
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	6	6	
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	3	3	
85000300	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	L SUM	1	1	
89502380	REMOVE EXISTING HANDHOLE	EACH	1	1	
X0321631	REMOVAL OF LUMINAIRE	EACH	8	8	
<del>Z0030850</del>	TEMPORARY INFORMATION SIGNING	SQ FT	250	250	
<del>Z0033028</del>	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12	12	
X0325335	CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC	FOOT	3,400	3400	
X8050050	SERVICE INSTALLATION, TYPE C (SPECIAL)	EACH	1	1	
X8210405	LUMINAIRE SHIELD	EACH	25	25	
X8360360	LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8'	EACH	122	122	
X8950130	MODIFY EXISTING LIGHTING CONTROLLER	EACH	1	1	
XX003338	TEST HOLE	EACH	204	204	
XX007488	LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8" X 6'	EACH	15	15	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Δ Z0076600	TRAINEES	HOUR	500	500	

Δ Y080

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**Ciorba Group, Inc.**  
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5507 North Cumberland Avenue, Suite 402  
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USER NAME = jvondra	DESIGNED - RJR	REVISED -
	DRAWN - RJR	REVISED -
PLOT SCALE = 1:8000' / IN.	CHECKED - JMV	REVISED -
PLOT DATE = 7/13/2010	DATE - 6/16/2010	REVISED -















**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

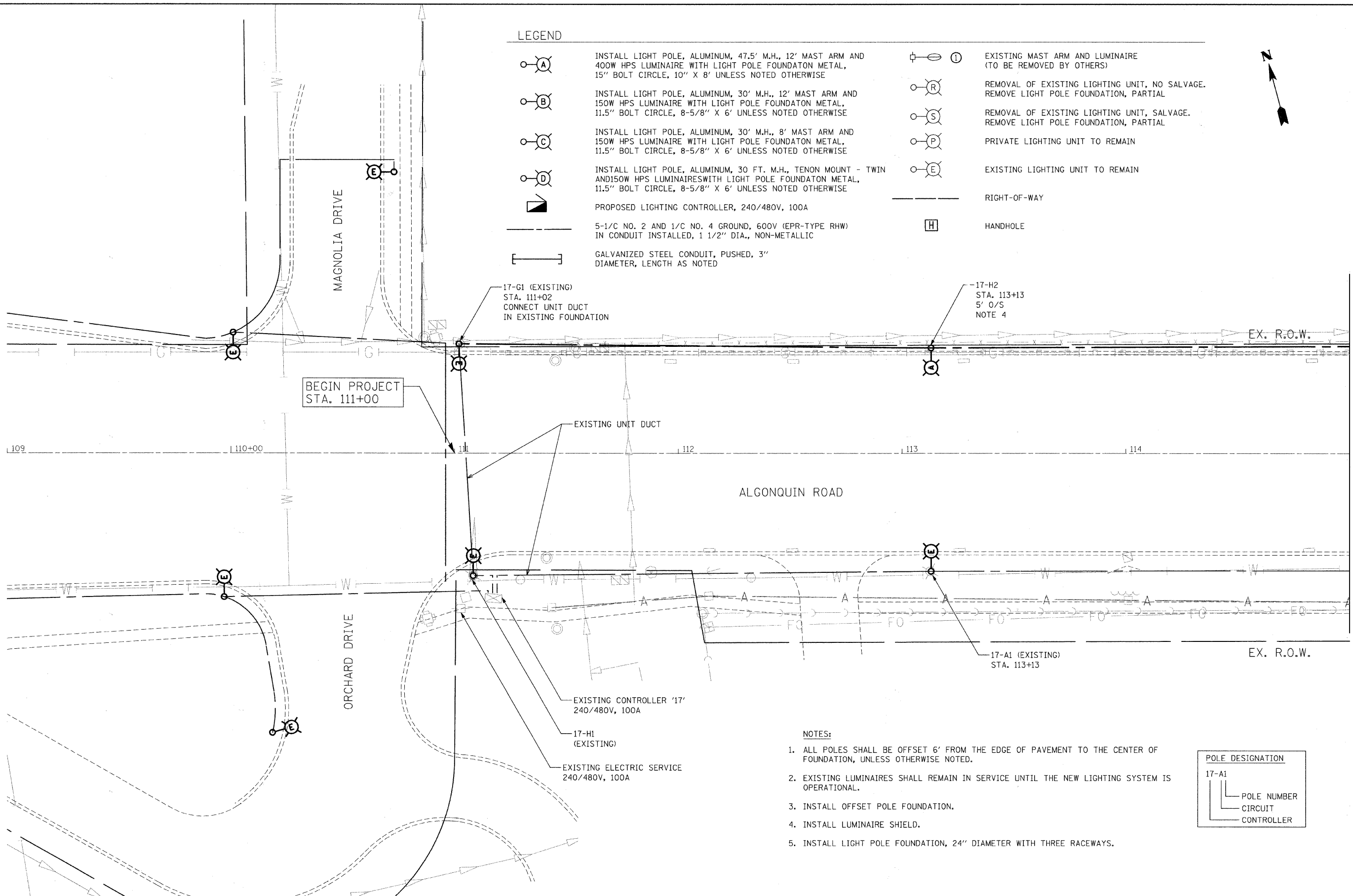
**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
SUMMARY OF QUANTITIES**

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 3
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

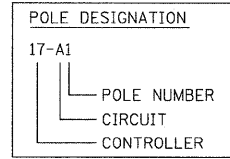
SCALE: SHEET NO. 3 OF 64 SHEETS STA. TO STA.

**LEGEND**

-  **A** INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10' X 8' UNLESS NOTED OTHERWISE
-  **B** INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  **C** INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  **D** INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
-  5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
-  GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
-  **I** EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
-  **R** REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  **S** REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  **P** PRIVATE LIGHTING UNIT TO REMAIN
-  **E** EXISTING LIGHTING UNIT TO REMAIN
-  RIGHT-OF-WAY
-  **H** HANDHOLE




- NOTES:**
1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
  2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
  3. INSTALL OFFSET POLE FOUNDATION.
  4. INSTALL LUMINAIRE SHIELD.
  5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



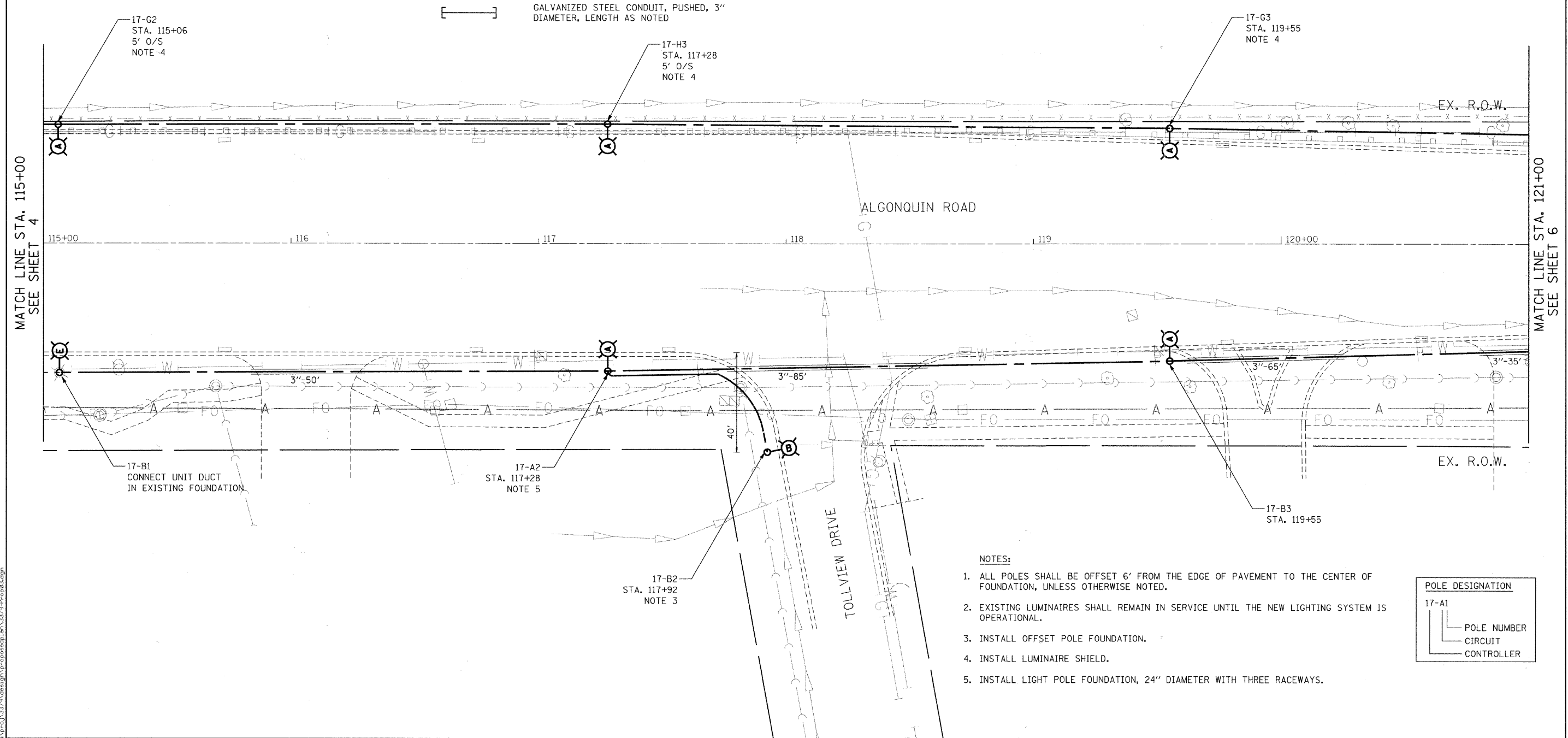
MATCH LINE STA. 115+00  
SEE SHEET 5

FILE NAME = n:\sproj\3379\design\proposals\3379-P-op02.dgn

 <p><b>Ciorba Group, Inc.</b> CONSULTING ENGINEERS 5607 North Cumberland Avenue, Suite 402 Chicago, Illinois 60658 Tel. 773.775.4009 Fax 773.775.4014</p>	USER NAME = jvandra	DESIGNED - RJR	REVISED -	<p><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p>	<p><b>ALGONQUIN ROAD LIGHTING IMPROVEMENTS</b> <b>PROPOSED LIGHTING PLAN</b></p>	F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 4
	PLOT SCALE = 20,000 / IN.	CHECKED - JMV	REVISIED -			SCALE: 1"=20'	SHEET NO. 4 OF 64 SHEETS	STA. 109+00 TO STA. 115+00	CONTRACT NO. 63426	
	PLOT DATE = 7/12/2010	DATE - 6/16/2010	REVISIED -			FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				

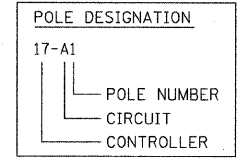
LEGEND

- INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
- INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
- 5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
- GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
- EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
- REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- PRIVATE LIGHTING UNIT TO REMAIN
- EXISTING LIGHTING UNIT TO REMAIN
- RIGHT-OF-WAY
- HANDHOLE



NOTES:

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



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USER NAME = jvondra	DESIGNED - RJR	REVISED -
PLOT SCALE = 20,0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
DATE = 6/16/2010	DATE = 6/16/2010	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

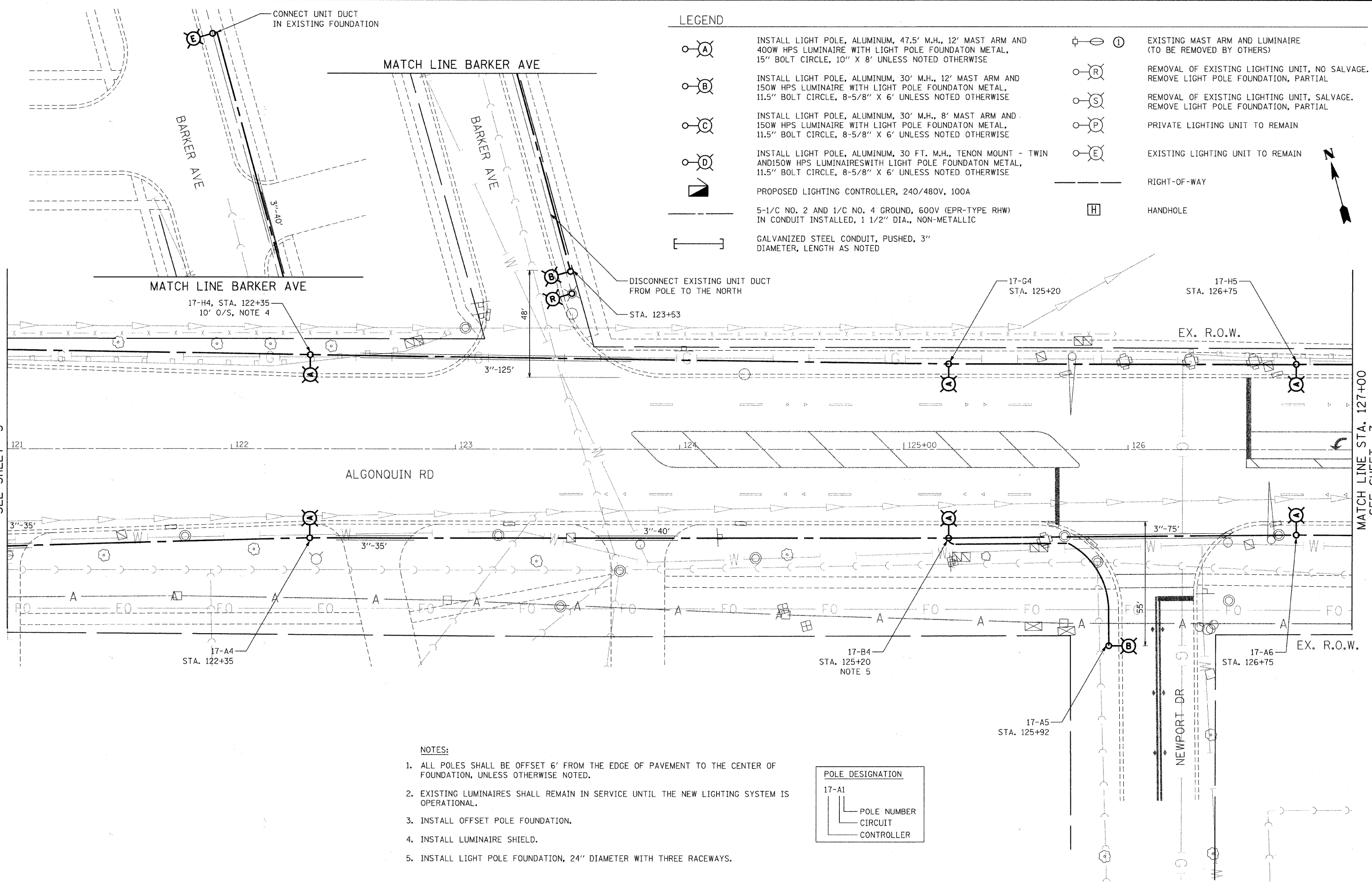
**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
 PROPOSED LIGHTING PLAN**

SCALE: 1"=20' SHEET NO. 5 OF 64 SHEETS STA. 115+00 TO STA. 121+00

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 5
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

MATCH LINE STA. 121+00  
SEE SHEET 5

MATCH LINE STA. 127+00  
SEE SHEET 7

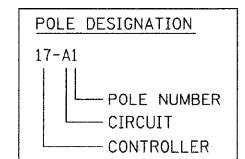


LEGEND

- INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
- INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- EXISTING LIGHTING UNIT TO REMAIN
- REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- PRIVATE LIGHTING UNIT TO REMAIN
- HANDHOLE
- EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
- PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
- 5-1/2" NO. 2 AND 1/2" NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
- GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
- RIGHT-OF-WAY

NOTES:

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



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**Ciorba Group, Inc.**  
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USER NAME = jvondra	DESIGNED - RJR	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -






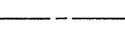
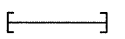
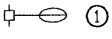






**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

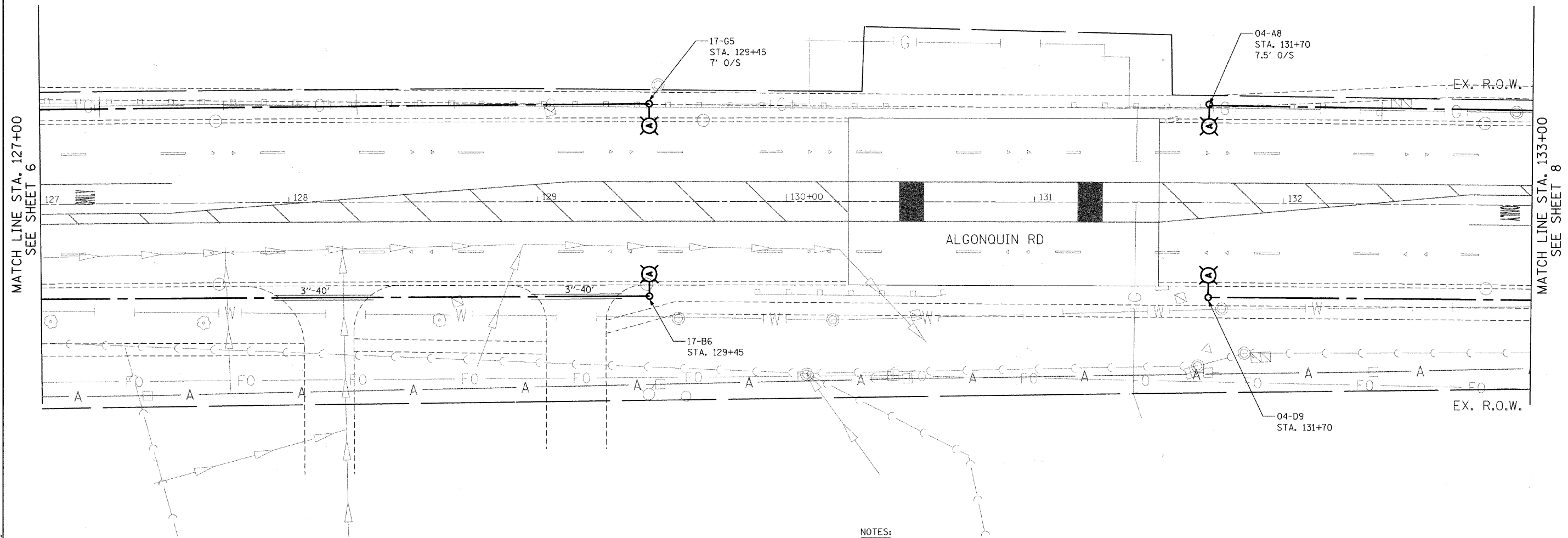
**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
PROPOSED LIGHTING PLAN**

SCALE: 1"=20' SHEET NO. 6 OF 64 SHEETS STA. 121+00 TO STA. 127+00

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 6
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

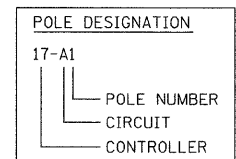
LEGEND

- 
INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
- 
INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- 
INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- 
INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- 
PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
- 
5-1/2 NO. 2 AND 1/2 NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
- 
GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
- 
EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
- 
REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- 
REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- 
PRIVATE LIGHTING UNIT TO REMAIN
- 
EXISTING LIGHTING UNIT TO REMAIN
- 
RIGHT-OF-WAY
- 
HANDHOLE



NOTES:

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



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USER NAME = jvond-a	DESIGNED - RJR	REVISIONS
PLOT SCALE = 20.0000' / IN.	DRAWN - RJR	REVISIONS
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISIONS
	DATE - 6/16/2010	REVISIONS

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

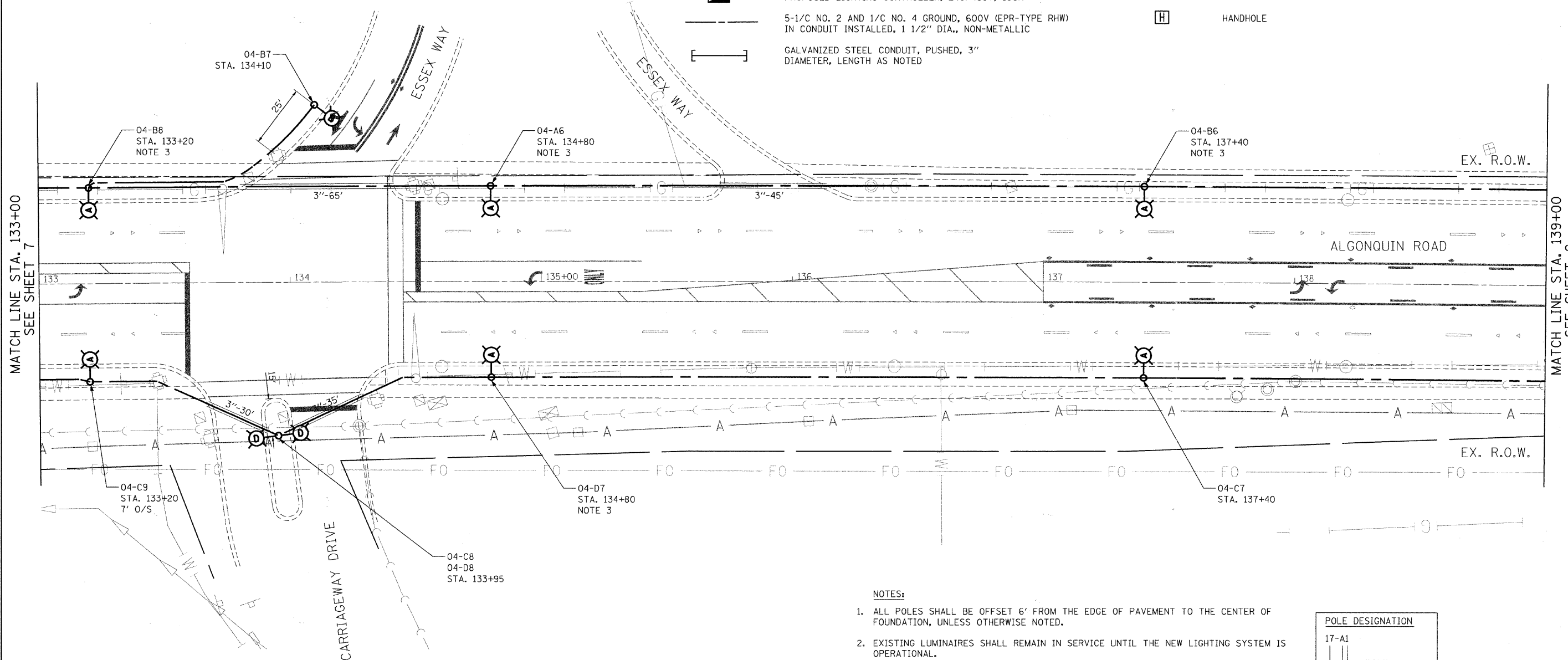
**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
 PROPOSED LIGHTING PLAN**

SCALE: 1"=20'    SHEET NO. 7 OF 64 SHEETS    STA. 127+00 TO STA. 133+00

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 7
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				

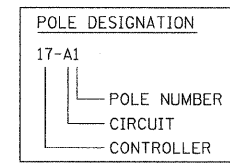
LEGEND

- INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
- INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
- 5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
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- PRIVATE LIGHTING UNIT TO REMAIN
- EXISTING LIGHTING UNIT TO REMAIN
- RIGHT-OF-WAY
- HANDHOLE



NOTES:

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



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**Ciorba Group, Inc.**  
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USER NAME = jvond-a	DESIGNED - RJR	REVISIONS
PLOT SCALE = 20.0000' / IN.	DRAWN - RJR	REVISIONS
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISIONS
	DATE - 6/16/2010	REVISIONS

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**















**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
 PROPOSED LIGHTING PLAN**

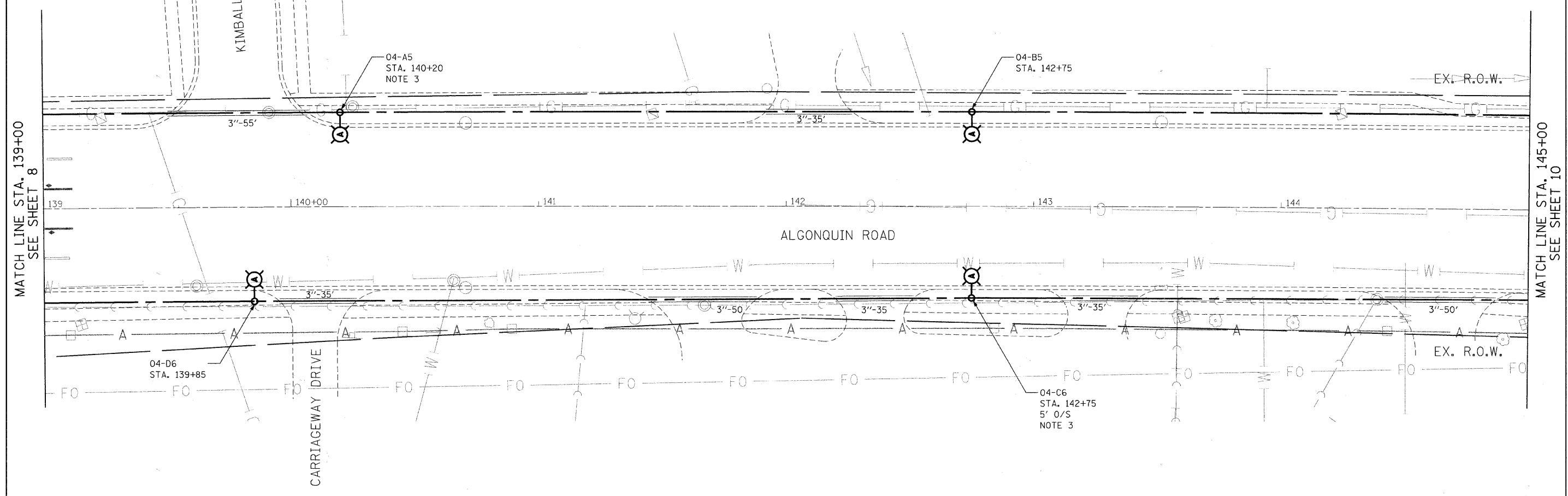
SCALE: 1"=20' SHEET NO. 8 OF 64 SHEETS STA. 133+00 TO STA. 139+00

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 8
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

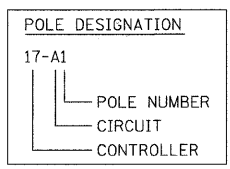


LEGEND

- 
INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
- 
INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- 
INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- 
INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- 
PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
- 
5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
- 
GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
- 
EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
- 
REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- 
REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- 
PRIVATE LIGHTING UNIT TO REMAIN
- 
EXISTING LIGHTING UNIT TO REMAIN
- 
RIGHT-OF-WAY
- 
HANDHOLE



- NOTES:
1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
  2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
  3. INSTALL OFFSET POLE FOUNDATION.
  4. INSTALL LUMINAIRE SHIELD.
  5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



FILE NAME = m:\p\rc\33799\design\proposed\plan\33799-Prop07.dgn

**Ciorba Group, Inc.**  
 CONSULTING ENGINEERS  
 5507 North Cumberland Avenue, Suite 402  
 Chicago, Illinois 60658  
 Tel. 773.775.4009 Fax 773.775.4014

USER NAME = jvondra	DESIGNED - RJR	REVISED -
PLOT SCALE = 28,0000 1/1 IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -
















**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
 PROPOSED LIGHTING PLAN**

SCALE: 1"=20' SHEET NO. 9 OF 64 SHEETS STA. 139+00 TO STA. 145+00

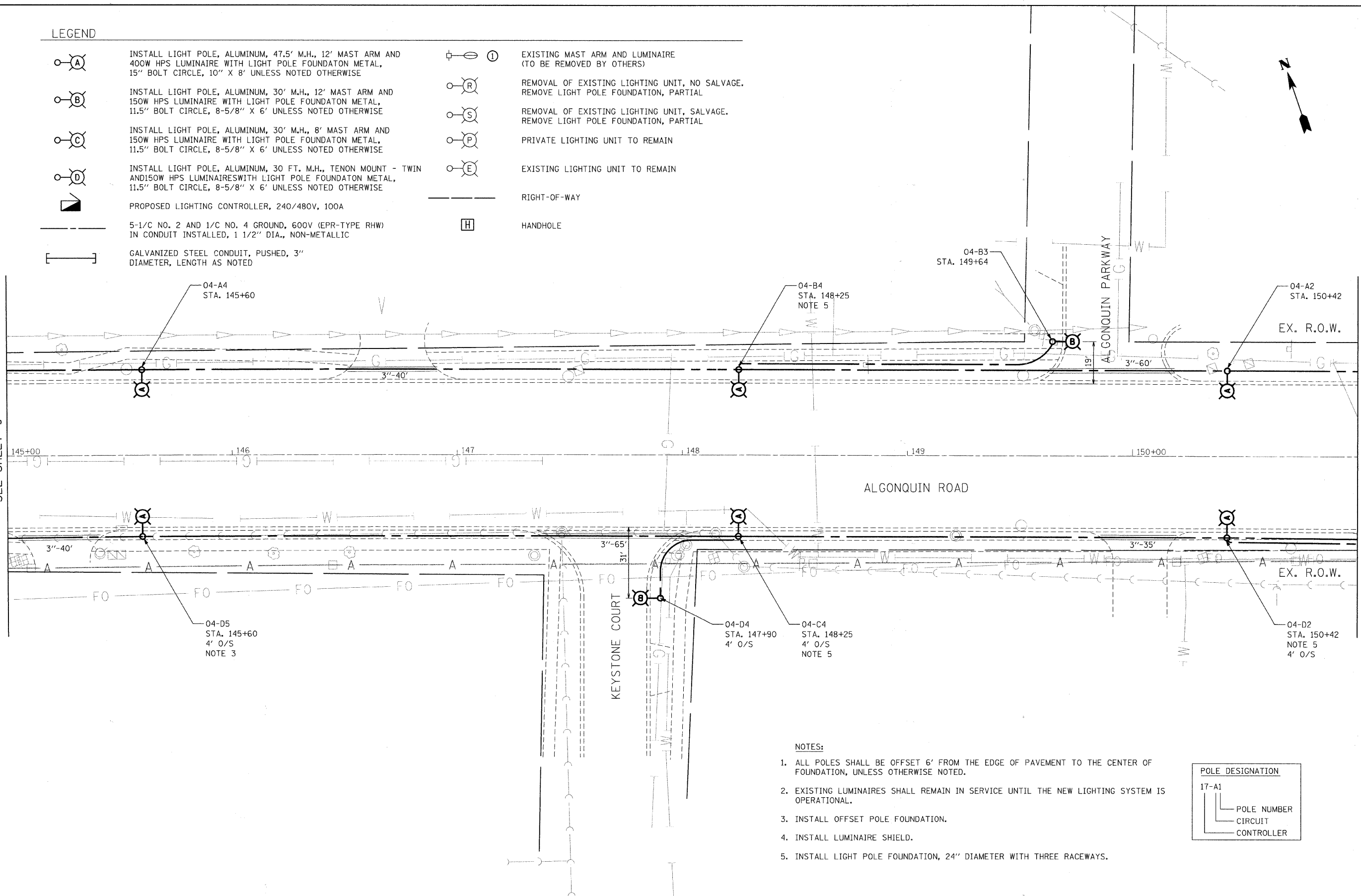
F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 9
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**LEGEND**

-  **A** INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
-  **B** INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  **C** INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  **D** INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  **E** EXISTING LIGHTING UNIT TO REMAIN
-  **F** PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
-  5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
-  GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
-  **I** EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
-  **R** REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  **S** REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  **P** PRIVATE LIGHTING UNIT TO REMAIN
-  **E** EXISTING LIGHTING UNIT TO REMAIN
-  RIGHT-OF-WAY
-  **H** HANDHOLE

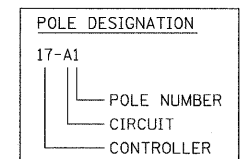
MATCH LINE STA. 145+00  
SEE SHEET 9

MATCH LINE STA. 151+00  
SEE SHEET 11



**NOTES:**

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



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Chicago, Illinois 60658  
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USER NAME = jvondra	DESIGNED - RJR	REVISED -
PLOT SCALE = 20,0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -















**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

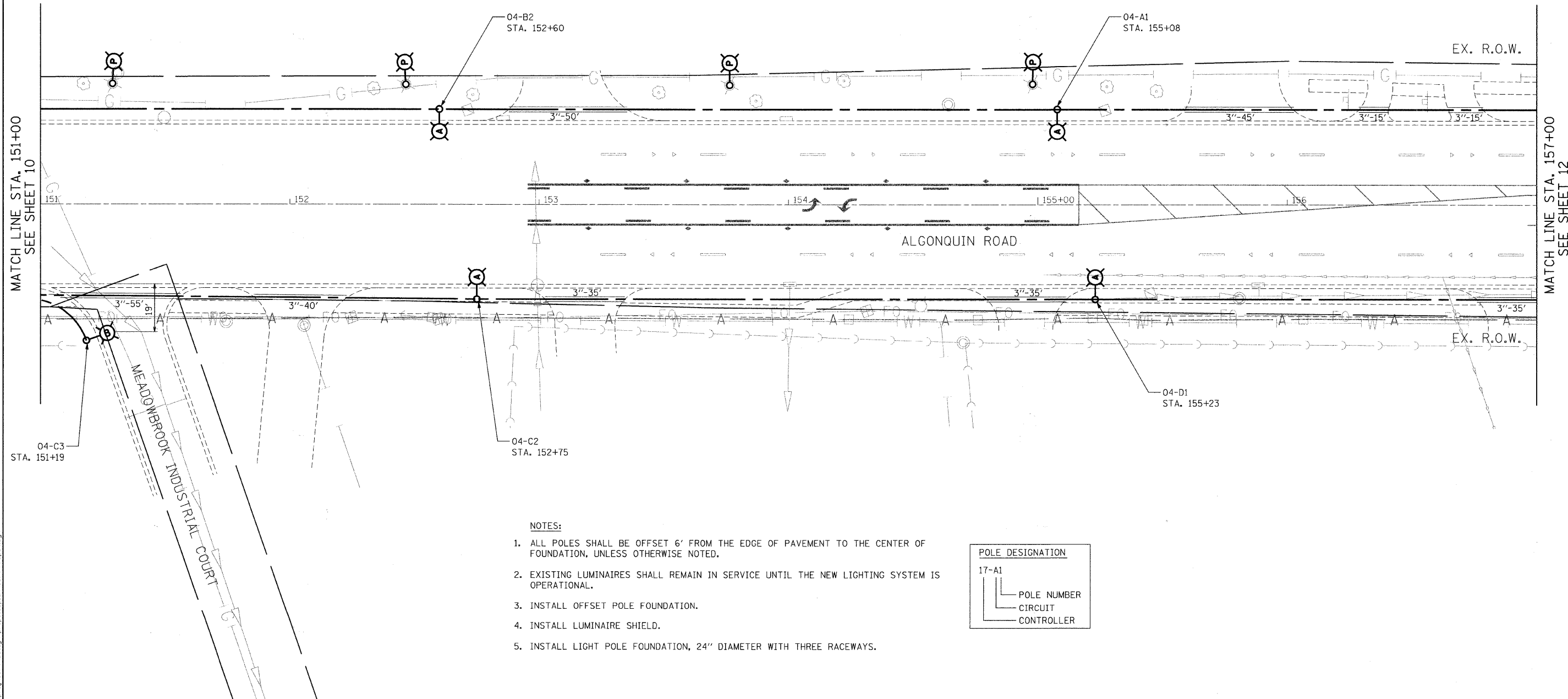
**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
PROPOSED LIGHTING PLAN**

SCALE: 1"=20'    SHEET NO. 10 OF 64 SHEETS    STA. 145+00 TO STA. 151+00

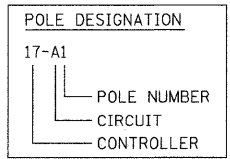
F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 10
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				

LEGEND

- 
INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
- 
INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- 
INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- 
INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- 
PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
- 
5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
- 
GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
- 
EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
- 
REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- 
REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- 
PRIVATE LIGHTING UNIT TO REMAIN
- 
EXISTING LIGHTING UNIT TO REMAIN
- 
RIGHT-OF-WAY
- 
HANDHOLE



- NOTES:
1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
  2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
  3. INSTALL OFFSET POLE FOUNDATION.
  4. INSTALL LUMINAIRE SHIELD.
  5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



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**Ciorba Group, Inc.**  
 CONSULTING ENGINEERS  
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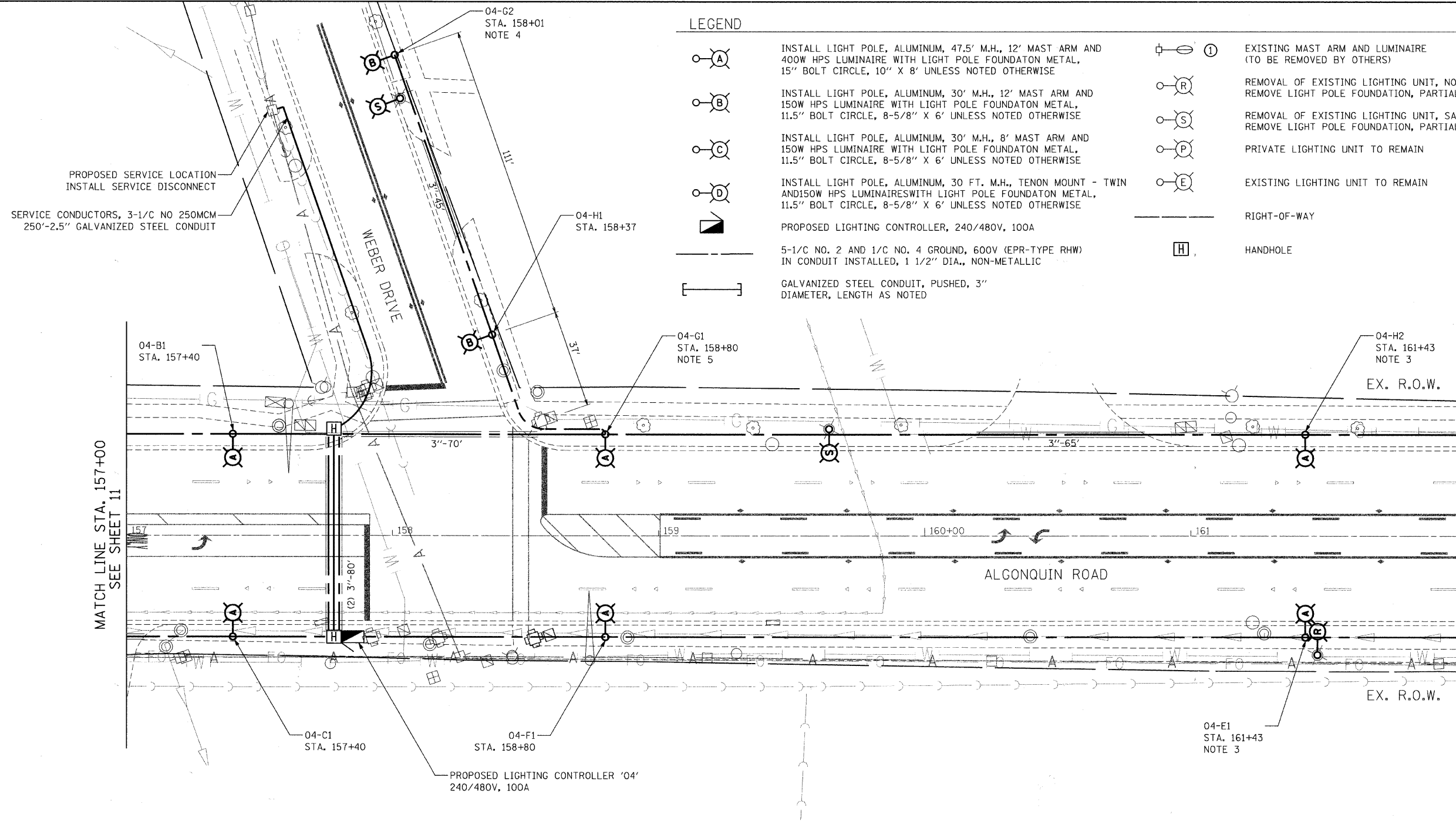
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PLOT SCALE = 20,000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
 PROPOSED LIGHTING PLAN**

SCALE: 1"=20'    SHEET NO. 11 OF 64 SHEETS    STA. 151+00 TO STA. 157+00

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 11
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



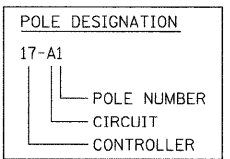
**LEGEND**

- ⊙-A INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
- ⊙-B INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- ⊙-C INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- ⊙-D INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- ⊙-E EXISTING LIGHTING UNIT TO REMAIN
- ⊙-R REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- ⊙-S REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- ⊙-P PRIVATE LIGHTING UNIT TO REMAIN
- ⊙-E EXISTING LIGHTING UNIT TO REMAIN
- ⊙-I EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
- ⊙-R REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- ⊙-S REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- ⊙-P PRIVATE LIGHTING UNIT TO REMAIN
- ⊙-E EXISTING LIGHTING UNIT TO REMAIN
- RIGHT-OF-WAY
- [H] HANDHOLE
- PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
- 5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
- [ ] GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED



**NOTES:**

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRE SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



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USER NAME = jvandra	DESIGNED - RJR	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -








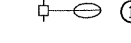
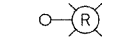
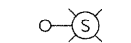
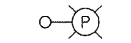
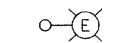
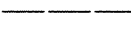
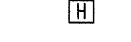
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

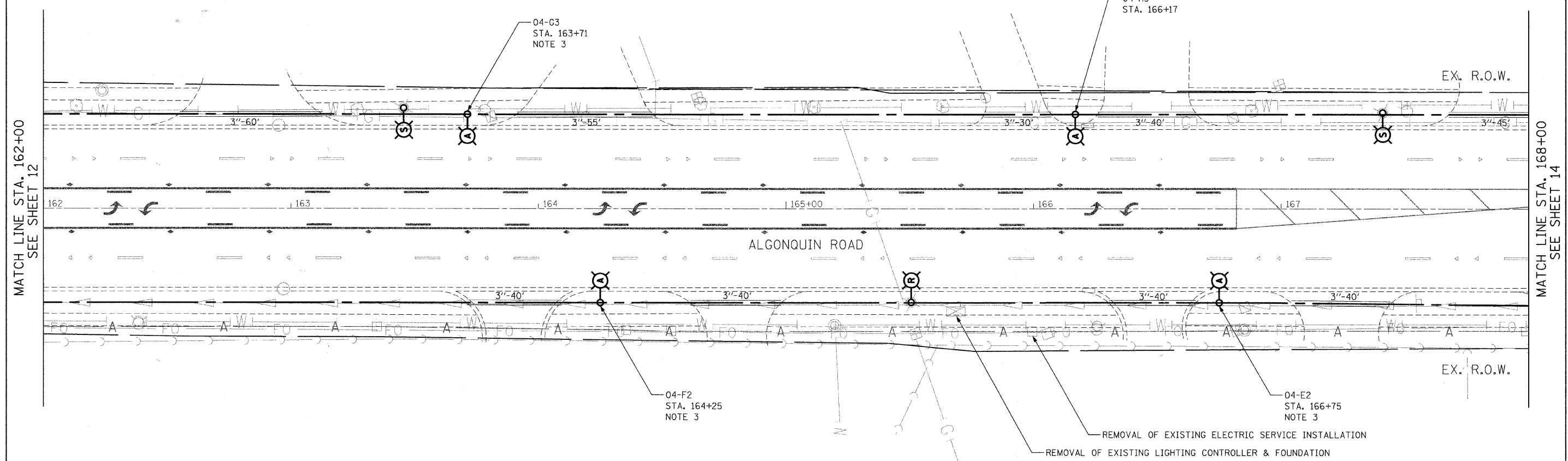
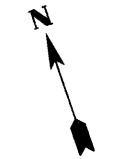
**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
PROPOSED LIGHTING PLAN**

SCALE: 1"=20' SHEET NO. 12 OF 64 SHEETS STA. 157+00 TO STA. 162+00

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 12
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LEGEND

-  INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8" UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
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-  REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  PRIVATE LIGHTING UNIT TO REMAIN
-  EXISTING LIGHTING UNIT TO REMAIN
-  RIGHT-OF-WAY
-  HANDHOLE

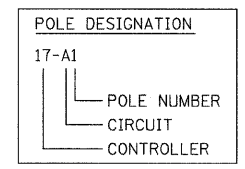


MATCH LINE STA. 162+00  
SEE SHEET 12

MATCH LINE STA. 168+00  
SEE SHEET 14

NOTES:

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



FILE NAME = n:\proj\3379\design\proposedplan\3379-Prop1.dgn

**Ciorba Group, Inc.**  
CONSULTING ENGINEERS  
5507 North Cumberland Avenue, Suite 402  
Chicago, Illinois 60656  
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = jvendra	DESIGNED - RJR	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

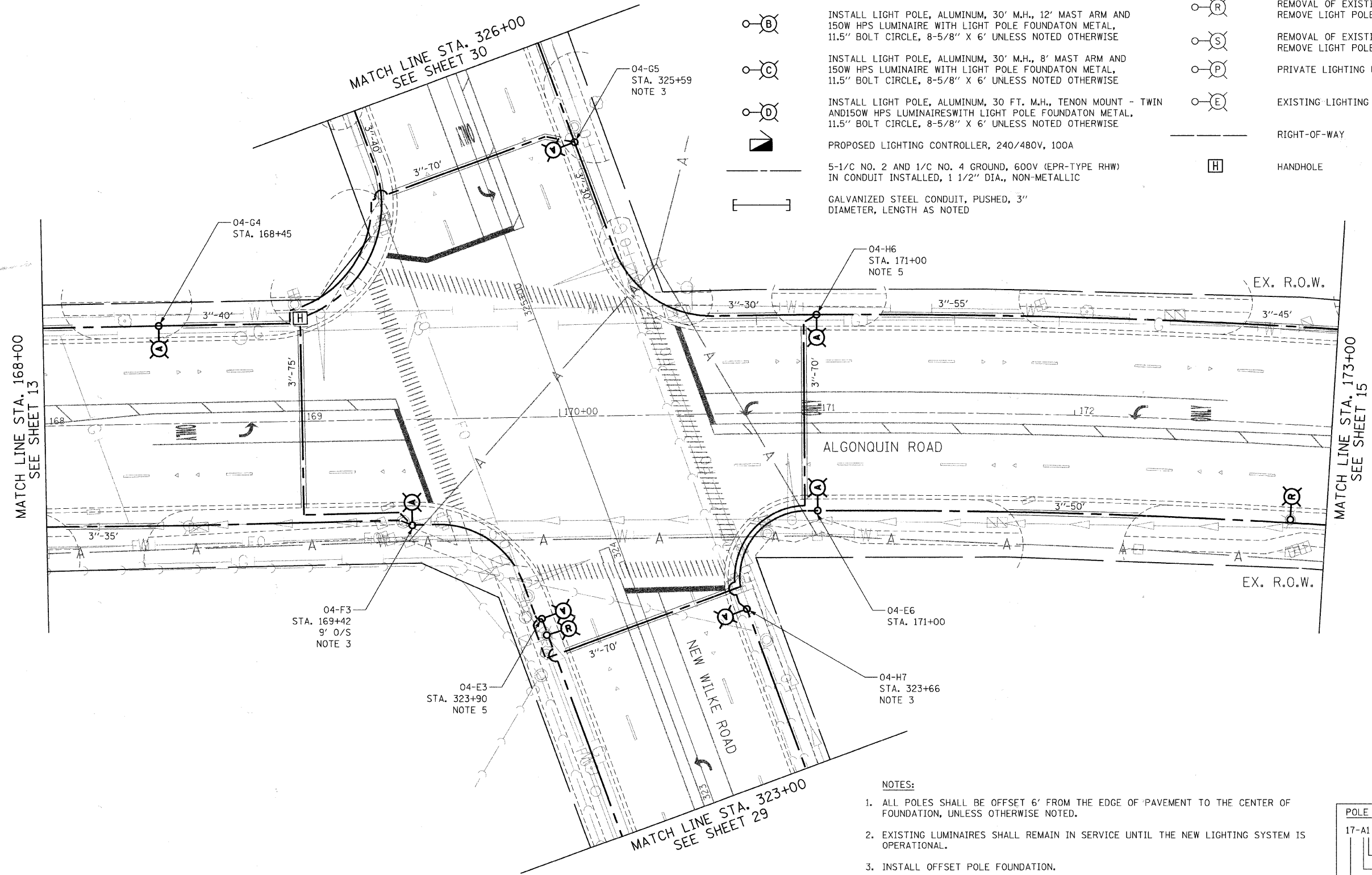
**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
PROPOSED LIGHTING PLAN**

SCALE: 1"=20'    SHEET NO. 13 OF 64 SHEETS    STA. 162+00 TO STA. 168+00

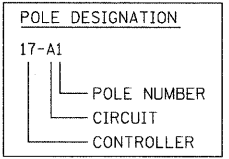
F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 13
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LEGEND

- ⊙ A INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
- ⊙ B INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- ⊙ C INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- ⊙ D INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- ▭ PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
- 5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
- [ ] GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
- ⊙ I EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
- ⊙ R REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- ⊙ S REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- ⊙ P PRIVATE LIGHTING UNIT TO REMAIN
- ⊙ E EXISTING LIGHTING UNIT TO REMAIN
- RIGHT-OF-WAY
- ⊞ H HANDHOLE



- NOTES:
1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
  2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
  3. INSTALL OFFSET POLE FOUNDATION.
  4. INSTALL LUMINAIRE SHIELD.
  5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



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USER NAME = jvandra	DESIGNED - RJR	REVISED -
PLOT SCALE = 20,0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -











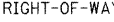

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
 PROPOSED LIGHTING PLAN**

SCALE: 1"=20' SHEET NO. 14 OF 64 SHEETS STA. 168+00 TO STA. 173+00

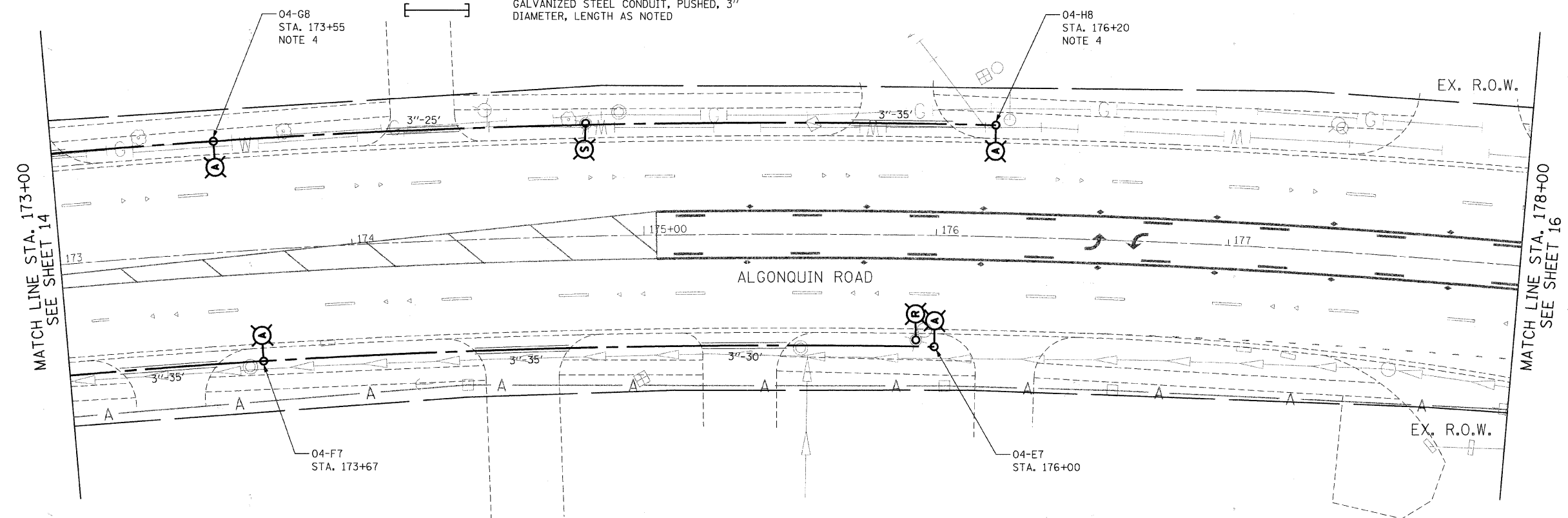
F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 14
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

LEGEND

-  INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
-  EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
-  REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  PRIVATE LIGHTING UNIT TO REMAIN
-  EXISTING LIGHTING UNIT TO REMAIN
-  RIGHT-OF-WAY
-  HANDHOLE

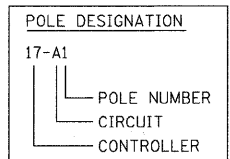
5-1/2" NO. 2 AND 1/2" NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC

GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED



NOTES:

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



FILE NAME = n:\proj\3379\design\p\epose\plan\3379-Prop\3.dgn



**Ciorba Group, Inc.**  
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5507 North Cumberland Avenue, Suite 402  
Chicago, Illinois 60656  
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = jvondra	DESIGNED - RJR	REVISIONS
PLOT SCALE = 20.0000' / IN.	DRAWN - RJR	REVISIONS
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISIONS
	DATE - 6/16/2010	REVISIONS















**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

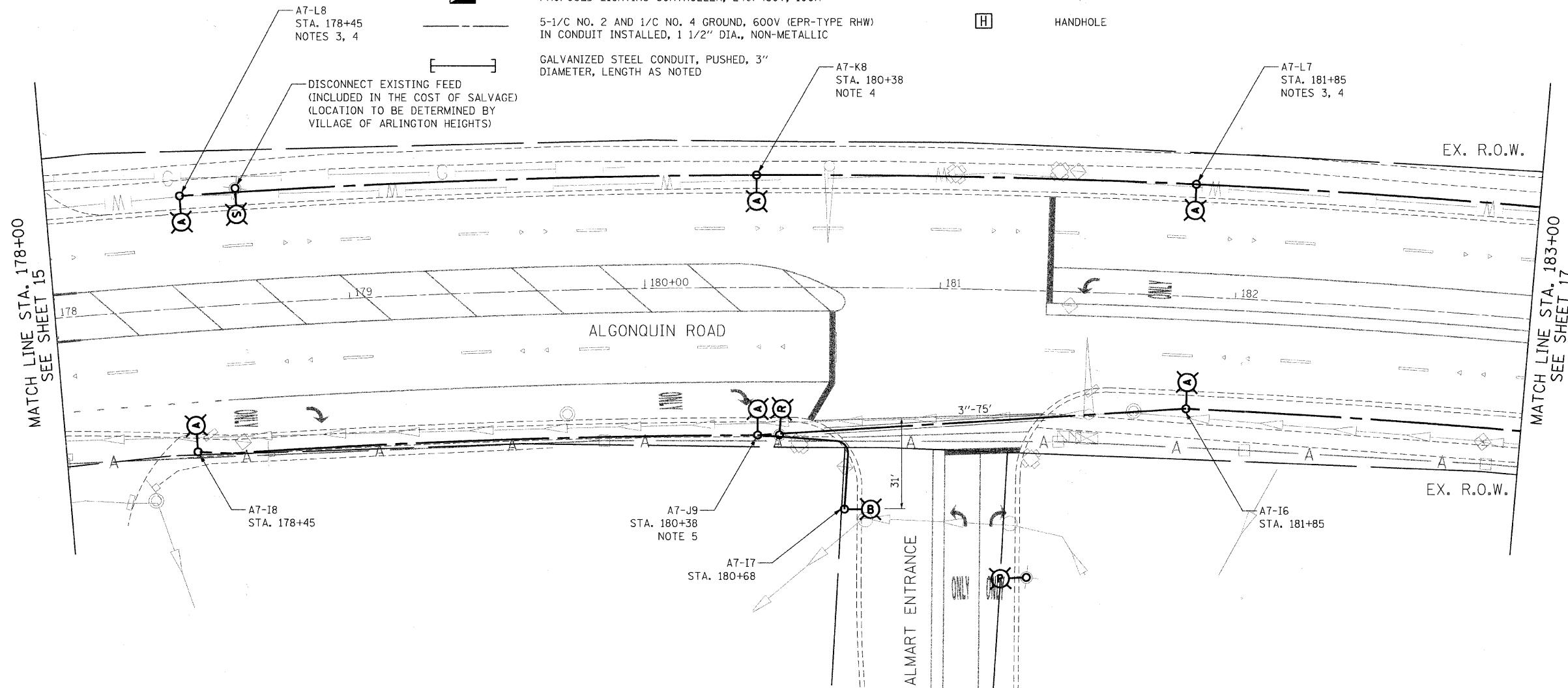
**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
PROPOSED LIGHTING PLAN**

SCALE: 1"=20'    SHEET NO. 15 OF 64 SHEETS    STA. 173+00 TO STA. 178+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	09-00100-00-LT	COOK	64	15
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

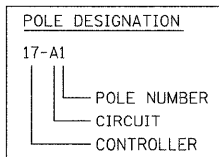
**LEGEND**

-  **A** INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
-  **B** INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  **C** INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  **D** INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
-  5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
-  GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
-  **I** EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
-  **R** REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  **S** REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  **P** PRIVATE LIGHTING UNIT TO REMAIN
-  **E** EXISTING LIGHTING UNIT TO REMAIN
-  RIGHT-OF-WAY
-  **H** HANDHOLE



**NOTES:**

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



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**Ciorba Group, Inc.**  
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Chicago, Illinois 60656  
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = jvondra	DESIGNED - RJR	REVISED -
PLOT SCALE = 20,0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**















**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
PROPOSED LIGHTING PLAN**

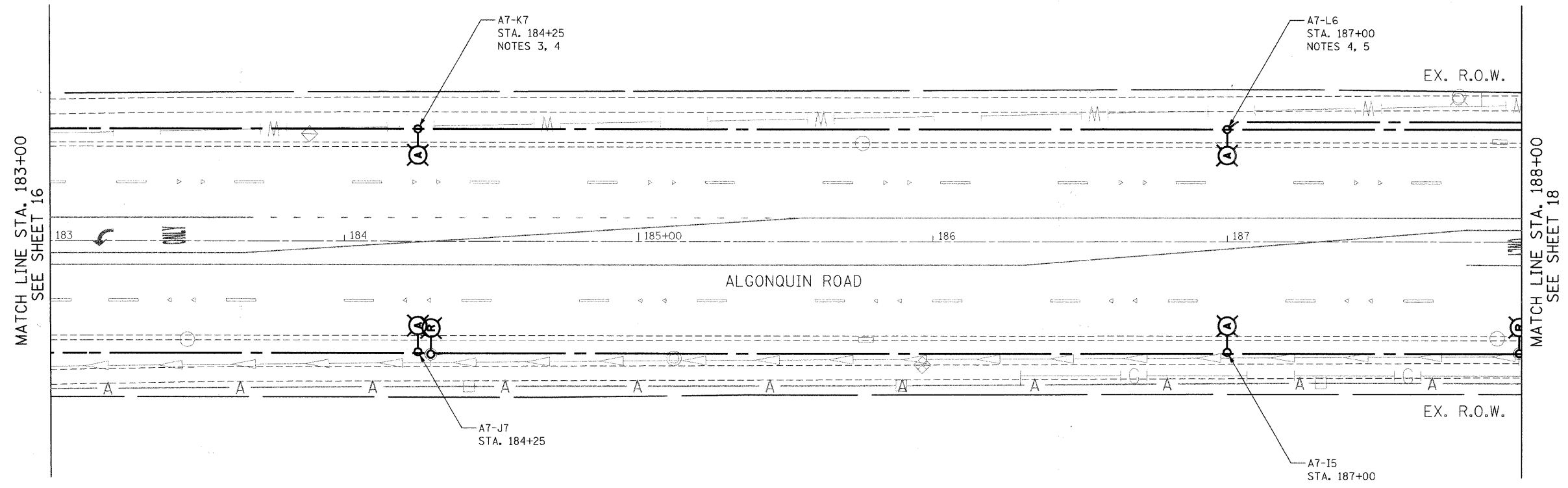
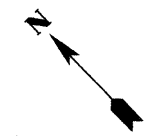
SCALE: 1"=20' SHEET NO. 16 OF 64 SHEETS STA. 178+00 TO STA. 183+00

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 16
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

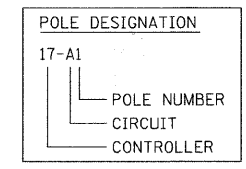


**LEGEND**


-  **A** INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
-  **B** INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  **C** INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  **D** INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
-  5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
-  GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
-  **I** EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
-  **R** REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  **S** REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  **P** PRIVATE LIGHTING UNIT TO REMAIN
-  **E** EXISTING LIGHTING UNIT TO REMAIN
-  RIGHT-OF-WAY
-  **H** HANDHOLE



- NOTES:**
1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
  2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
  3. INSTALL OFFSET POLE FOUNDATION.
  4. INSTALL LUMINAIRE SHIELD.
  5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.

















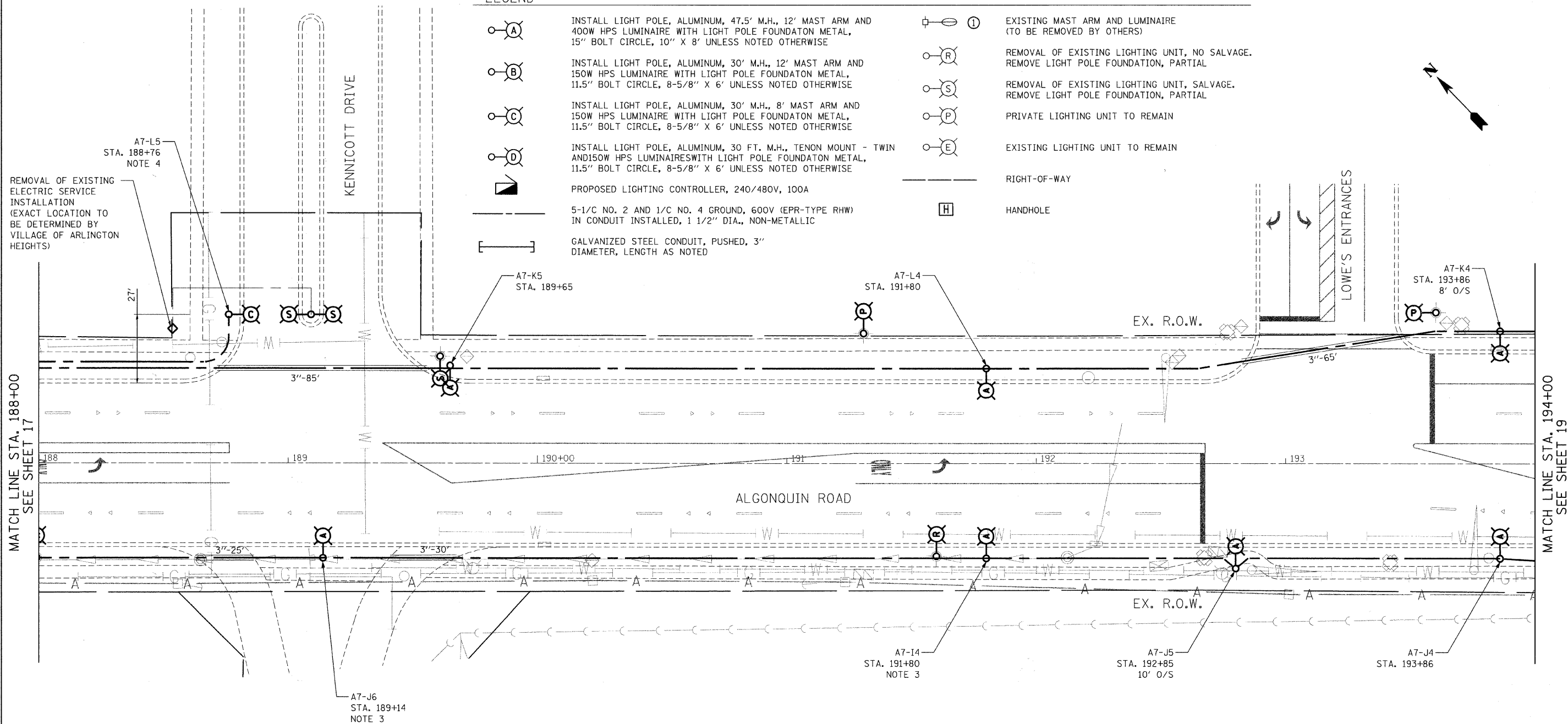
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 <p><b>Ciorba Group, Inc.</b> CONSULTING ENGINEERS 5607 North Cumberland Avenue, Suite 402 Chicago, Illinois 60658 Tel. 773.776.4009 Fax 773.776.4014</p>	USER NAME = jvondra	DESIGNED - RJR	REVISED -	<p><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p>	<p><b>ALGONQUIN ROAD LIGHTING IMPROVEMENTS</b> <b>PROPOSED LIGHTING PLAN</b></p>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 20.0000' / IN.	CHECKED - JMV	REVISED -			339	09-00100-00-LT	COOK	64	17
	PLOT DATE = 7/12/2010	DATE - 6/16/2010	REVISED -			CONTRACT NO. 63426				

SCALE: 1"=20' SHEET NO. 17 OF 64 SHEETS STA. 183+00 TO STA. 188+00 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

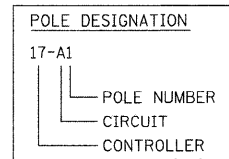
**LEGEND**

-  **A** INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
-  **B** INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  **C** INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  **D** INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
-  5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
-  GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
-  **I** EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
-  **R** REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  **S** REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  **P** PRIVATE LIGHTING UNIT TO REMAIN
-  **E** EXISTING LIGHTING UNIT TO REMAIN
-  RIGHT-OF-WAY
-  **H** HANDHOLE



**NOTES:**

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



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USER NAME = jvondra	DESIGNED - RJR	REVISED -
PLOT SCALE = 20,0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -















**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

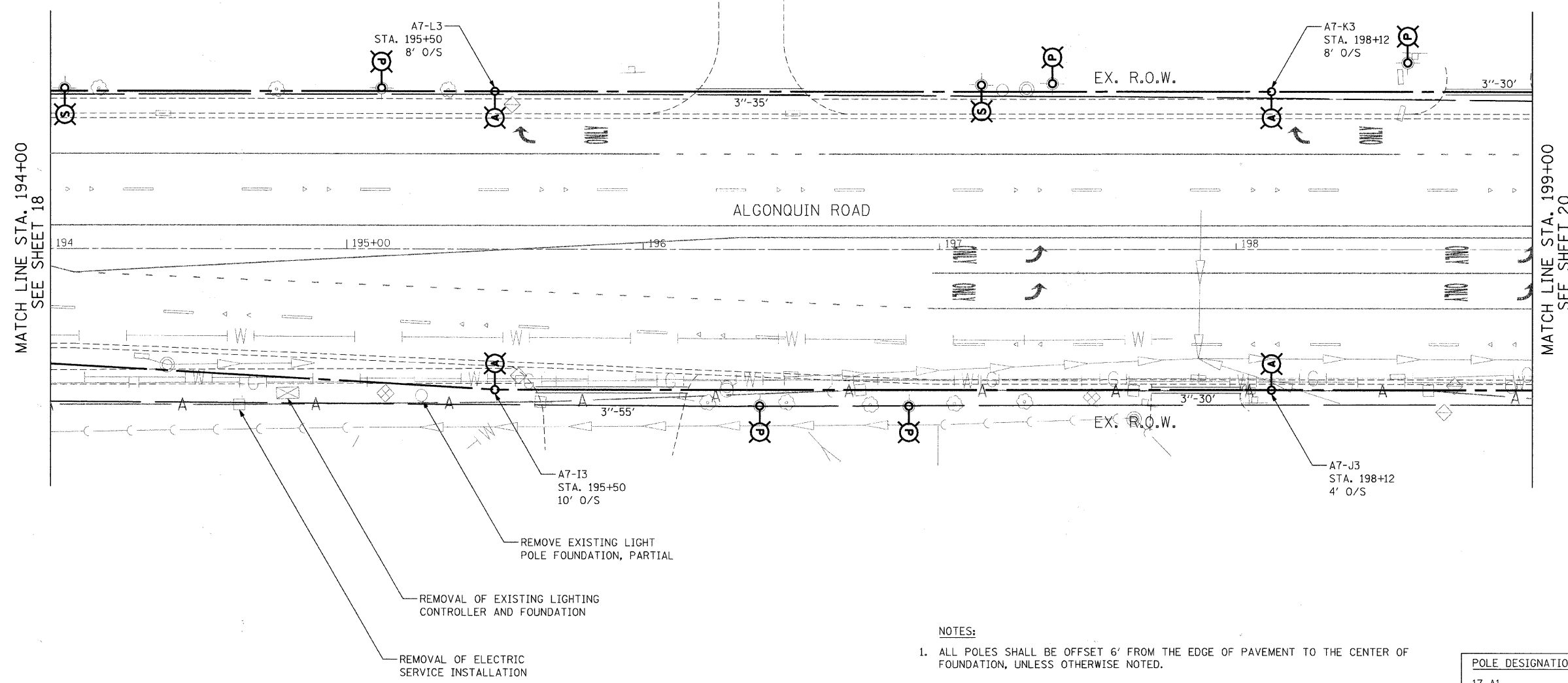
**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
 PROPOSED LIGHTING PLAN**

SCALE: 1"=20' SHEET NO. 18 OF 64 SHEETS STA. 188+00 TO STA. 194+00

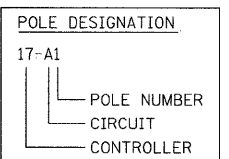
F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 18
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LEGEND

- 
INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
- 
INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- 
INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- 
INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- 
PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
- 
5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
- 
GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
- 
EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
- 
REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- 
REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- 
PRIVATE LIGHTING UNIT TO REMAIN
- 
EXISTING LIGHTING UNIT TO REMAIN
- 
RIGHT-OF-WAY
- 
HANDHOLE



- NOTES:
1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
  2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
  3. INSTALL OFFSET POLE FOUNDATION.
  4. INSTALL LUMINAIRE SHIELD.
  5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



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USER NAME = jvondra	DESIGNED - RJR	REVISED -
PLOT SCALE = 28.0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
 PROPOSED LIGHTING PLAN**

SCALE: 1"=20'    SHEET NO. 19 OF 64 SHEETS    STA. 194+00 TO STA. 199+00

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 19
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				

LEGEND

- INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
- INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
- 5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
- GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED

- EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
- REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- PRIVATE LIGHTING UNIT TO REMAIN
- EXISTING LIGHTING UNIT TO REMAIN

- HANDHOLE

PROPOSED UNIT DUCT SHOWN IN SIDEWALK FOR CLARIFICATION ONLY, DUCT SHALL BE INSTALLED IN PARKWAY

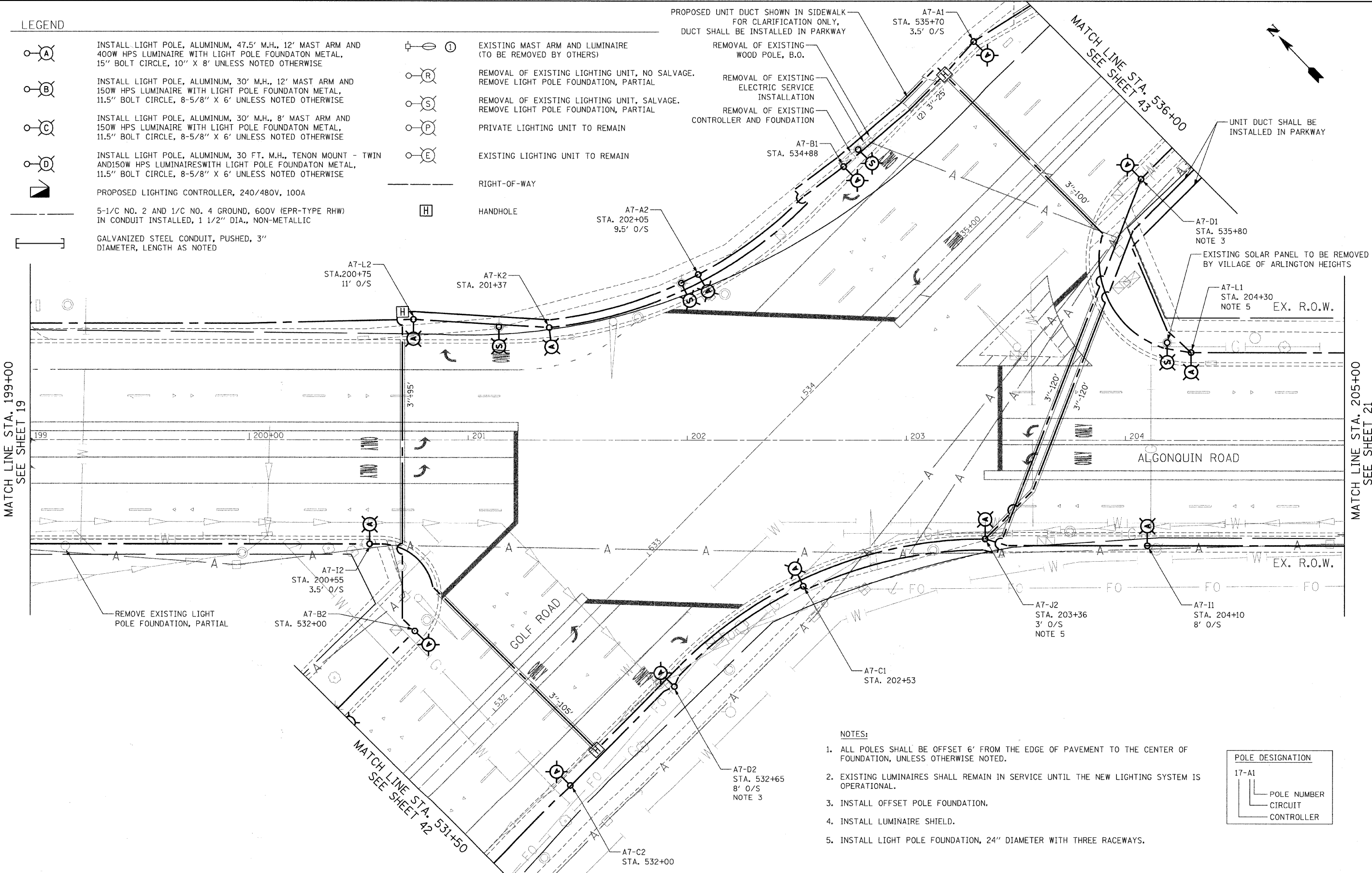
REMOVAL OF EXISTING WOOD POLE, B.O.

REMOVAL OF EXISTING ELECTRIC SERVICE INSTALLATION

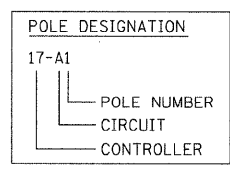
REMOVAL OF EXISTING CONTROLLER AND FOUNDATION

MATCH LINE STA. 199+00 SEE SHEET 19

MATCH LINE STA. 205+00 SEE SHEET 21



- NOTES:
- ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
  - EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
  - INSTALL OFFSET POLE FOUNDATION.
  - INSTALL LUMINAIRE SHIELD.
  - INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



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**Ciorba Group, Inc.**  
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USER NAME = jvondra	DESIGNED - RJR	REVISED -
PLOT SCALE = 20,0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -















**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

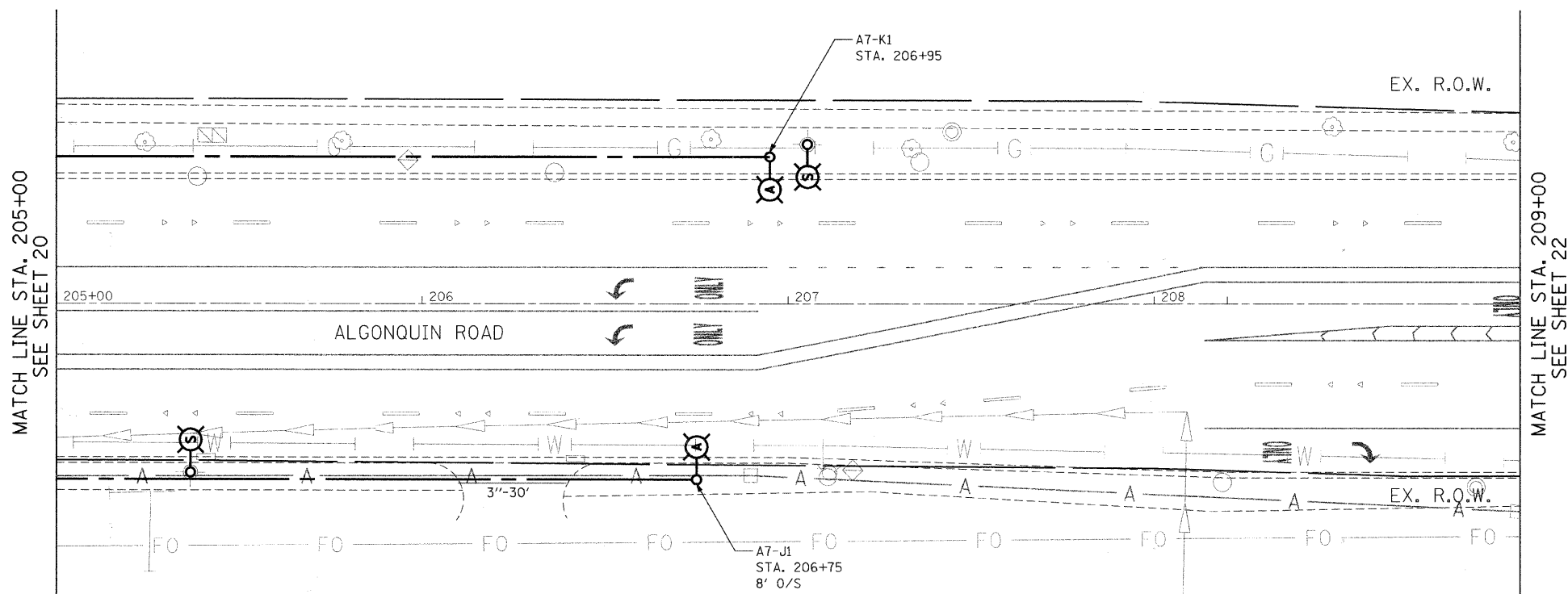
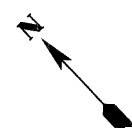
**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
 PROPOSED LIGHTING PLAN**

SCALE: 1"=20' SHEET NO. 20 OF 64 SHEETS STA. 199+00 TO STA. 205+00

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 20
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

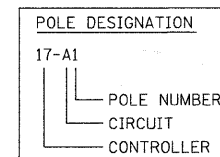
LEGEND

-  INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
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-  5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
-  GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
-  EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
-  REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
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-  EXISTING LIGHTING UNIT TO REMAIN
-  RIGHT-OF-WAY
-  HANDHOLE



NOTES:

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
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4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



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USER NAME = jvend-a	DESIGNED - RJR	REVISED -
DRAWN - RJR	CHECKED - JMV	REVISED -
PLOT SCALE = 20,0000' / IN.	DATE - 6/16/2010	REVISED -
PLOT DATE = 7/12/2010		















**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

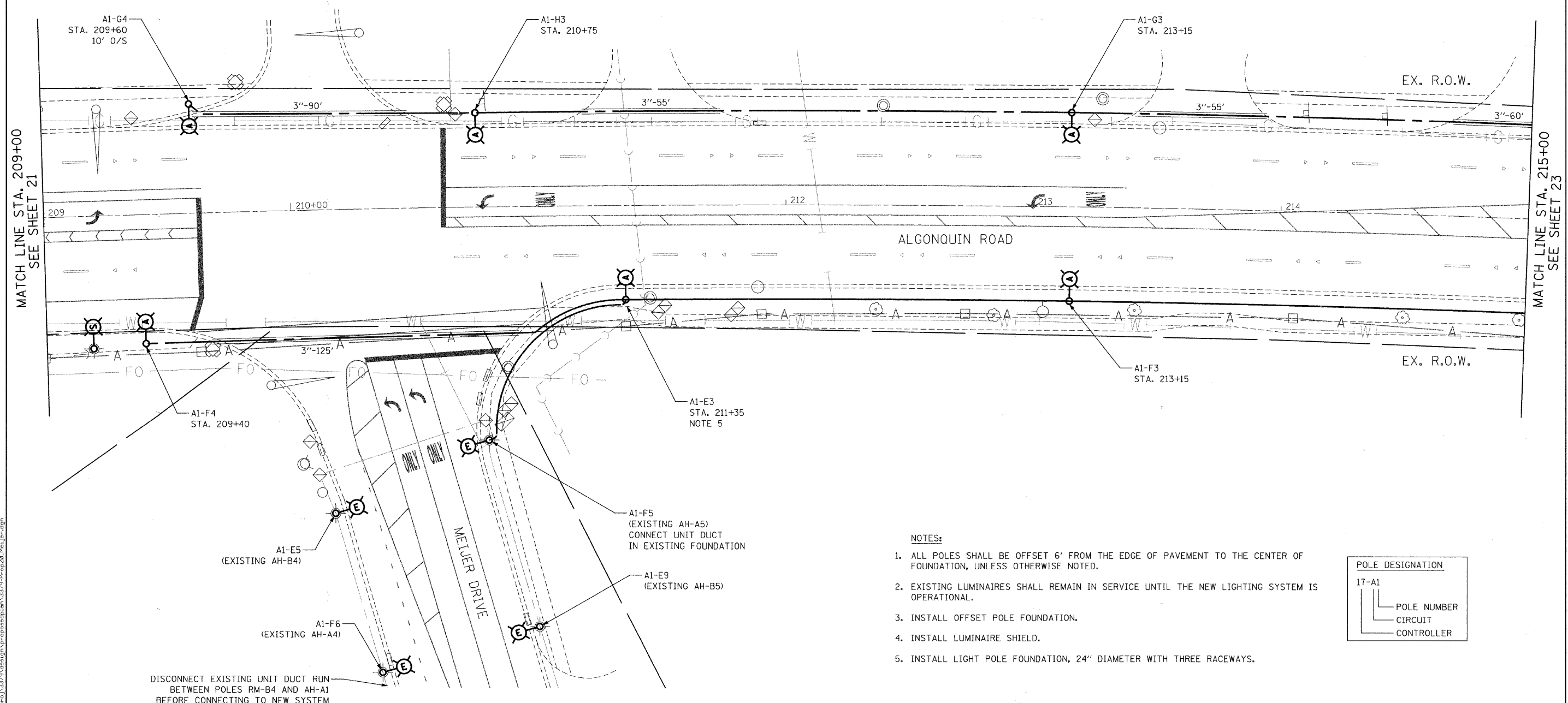
**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
PROPOSED LIGHTING PLAN**

SCALE: 1"=20' SHEET NO. 21 OF 64 SHEETS STA. 205+00 TO STA. 209+00

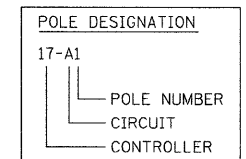
F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 21
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LEGEND

-  **A** INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
-  **B** INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  **C** INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  **D** INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
-  5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
-  GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
-  **I** EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
-  **R** REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  **S** REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  **P** PRIVATE LIGHTING UNIT TO REMAIN
-  **E** EXISTING LIGHTING UNIT TO REMAIN
-  RIGHT-OF-WAY
-  **H** HANDHOLE



- NOTES:
1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
  2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
  3. INSTALL OFFSET POLE FOUNDATION.
  4. INSTALL LUMINAIRE SHIELD.
  5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



DISCONNECT EXISTING UNIT DUCT RUN BETWEEN POLES RM-B4 AND AH-A1 BEFORE CONNECTING TO NEW SYSTEM

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**Ciorba Group, Inc.**  
 CONSULTING ENGINEERS  
 5507 North Cumberland Avenue, Suite 402  
 Chicago, Illinois 60656  
 Tel. 773.775.4009 Fax 773.775.4014

USER NAME = jvandra	DESIGNED - RJR	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -















**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

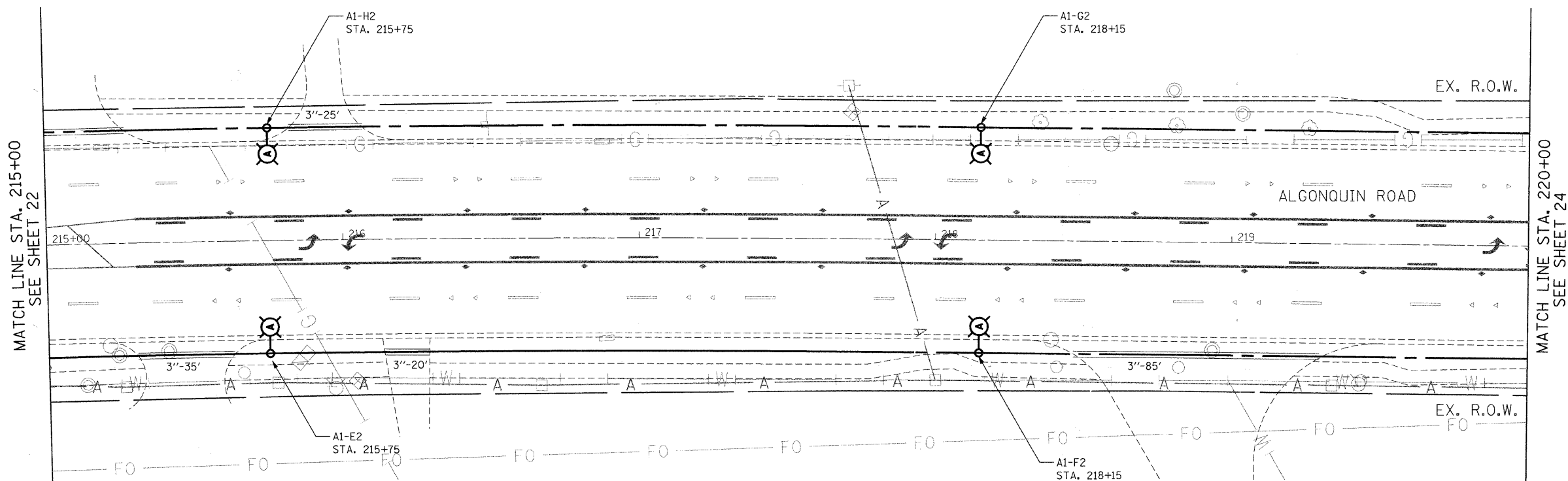
**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
 PROPOSED LIGHTING PLAN**

SCALE: 1"=20' SHEET NO. 22 OF 64 SHEETS STA. 209+00 TO STA. 215+00

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 22
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 63426				

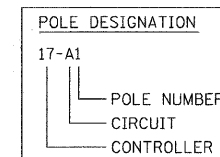
**LEGEND**

-  **A** INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
-  **B** INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  **C** INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  **D** INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
-  5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
-  GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
-  **I** EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
-  **R** REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  **S** REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  **P** PRIVATE LIGHTING UNIT TO REMAIN
-  **E** EXISTING LIGHTING UNIT TO REMAIN
-  RIGHT-OF-WAY
-  **H** HANDHOLE



**NOTES:**

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



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**Ciorba Group, Inc.**  
 CONSULTING ENGINEERS  
 5607 North Cumberland Avenue, Suite 402  
 Chicago, Illinois 60658  
 Tel. 773.775.4009 Fax 773.775.4014

USER NAME = jvandra	DESIGNED - RJR	REVISED -
PLOT SCALE = 20.0000" / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -








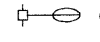
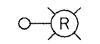
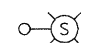
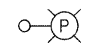
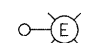

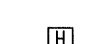
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

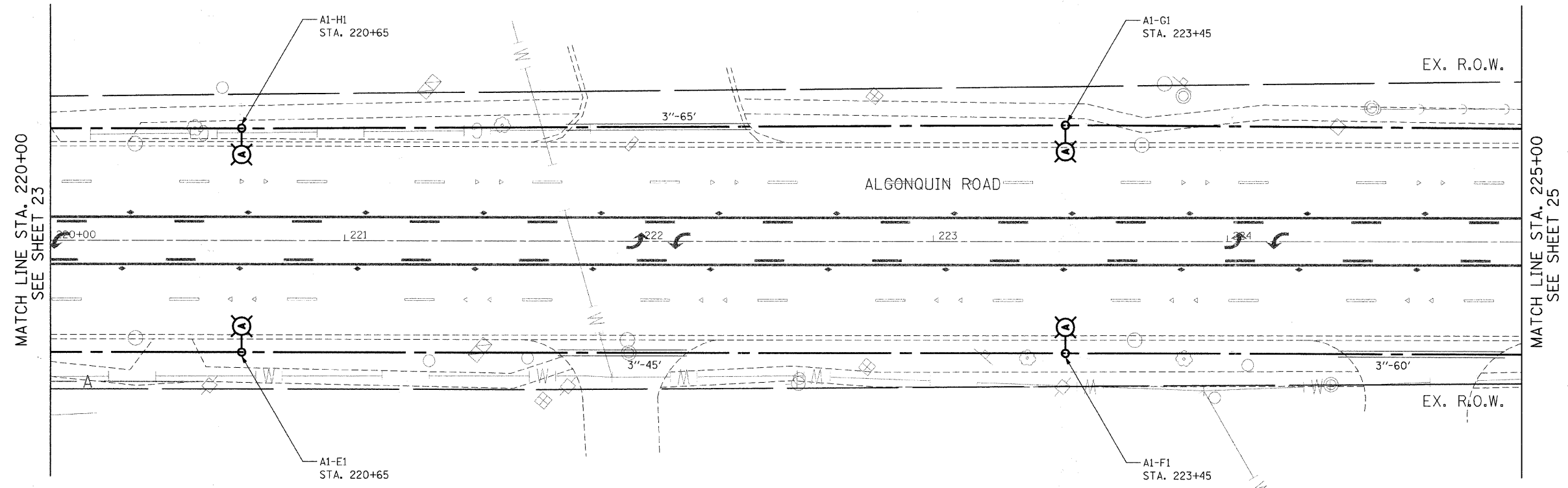
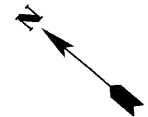
**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
 PROPOSED LIGHTING PLAN**

SCALE: 1"=20' SHEET NO. 23 OF 64 SHEETS STA. 215+00 TO STA. 220+00

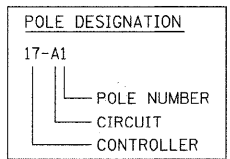
F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 23
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**LEGEND**

- 
INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
- 
INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
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INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- 
INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- 
PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
- 
5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
- 
GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
- 
EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
- 
REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- 
REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- 
PRIVATE LIGHTING UNIT TO REMAIN
- 
EXISTING LIGHTING UNIT TO REMAIN
- 
RIGHT-OF-WAY
- 
HANDHOLE

















- NOTES:**
1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
  2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
  3. INSTALL OFFSET POLE FOUNDATION.
  4. INSTALL LUMINAIRE SHIELD.
  5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.

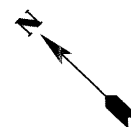


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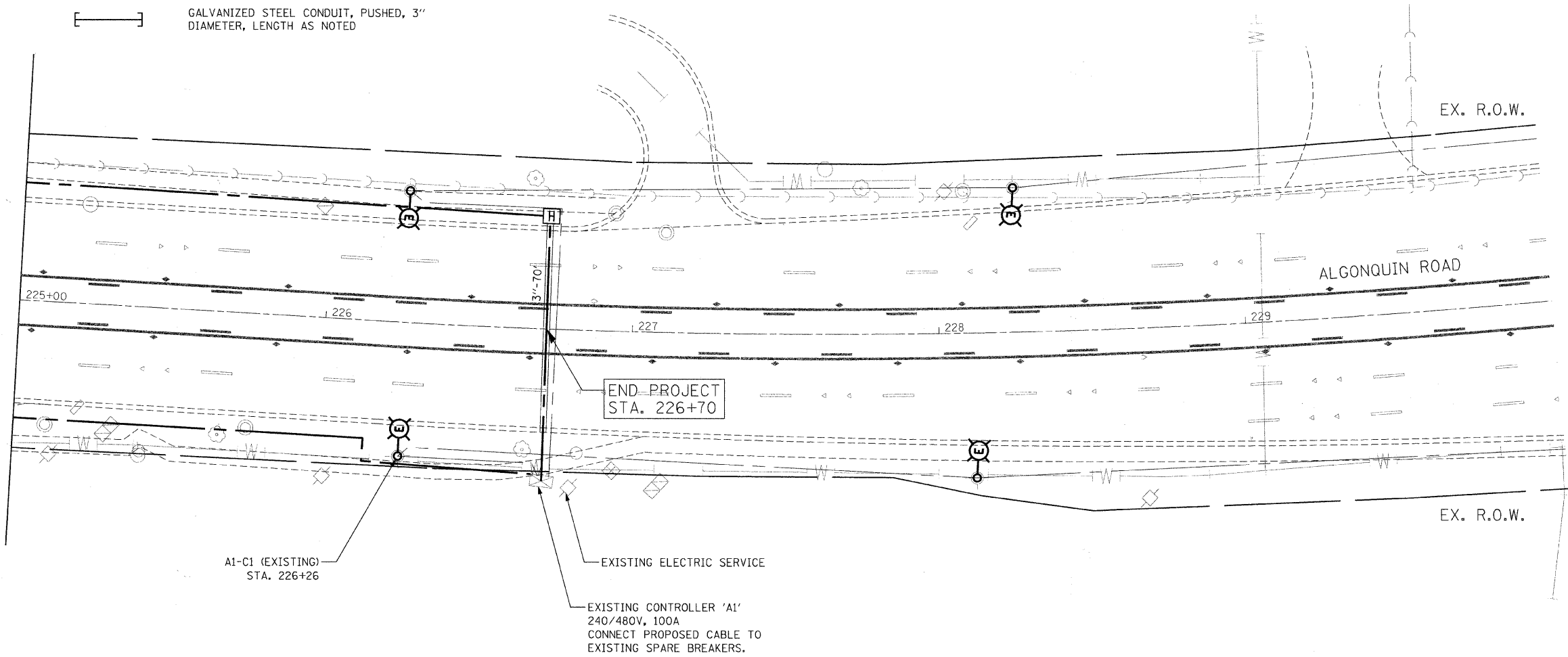


**LEGEND**

-  INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
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-  PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
-  5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
-  GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED

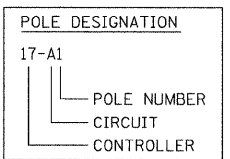


MATCH LINE STA. 225+00  
SEE SHEET 24



**NOTES:**

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRE SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



FILE NAME = r:\proj\3379\design\proposed\plan\3379-Pr-op02.dgn



**Ciorba Group, Inc.**  
CONSULTING ENGINEERS  
5507 North Cumberland Avenue, Suite 402  
Chicago, Illinois 60655  
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = jvond-a	DESIGNED - RJR	REVISIONS
PLOT SCALE = 20.0000' / IN.	DRAWN - RJR	REVISIONS
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISIONS
	DATE - 6/16/2010	REVISIONS

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

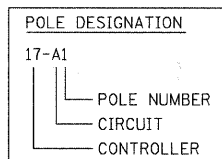
**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
PROPOSED LIGHTING PLAN**

SCALE: 1"=20' SHEET NO. 25 OF 64 SHEETS STA. 225+00 TO STA. 230+00

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 25
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**NOTES:**

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



BEGIN PROJECT STA. 300+75

MATCH LINE STA. 507+00  
SEE SHEET 38

MATCH LINE STA. 306+00  
SEE SHEET 27

**LEGEND**

- INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
- INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
- 5-1/2 NO. 2 AND 1/2 NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
- GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED

- EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
- REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- PRIVATE LIGHTING UNIT TO REMAIN
- EXISTING LIGHTING UNIT TO REMAIN
- RIGHT-OF-WAY
- HANDHOLE

USER NAME = jvondra	DESIGNED - RJR	REVISED -
PLOT SCALE = 20,0000 / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/22/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
PROPOSED LIGHTING PLAN**

SCALE: 1"=20' SHEET NO. 26 OF 64 SHEETS STA. 300+00 TO STA. 306+00

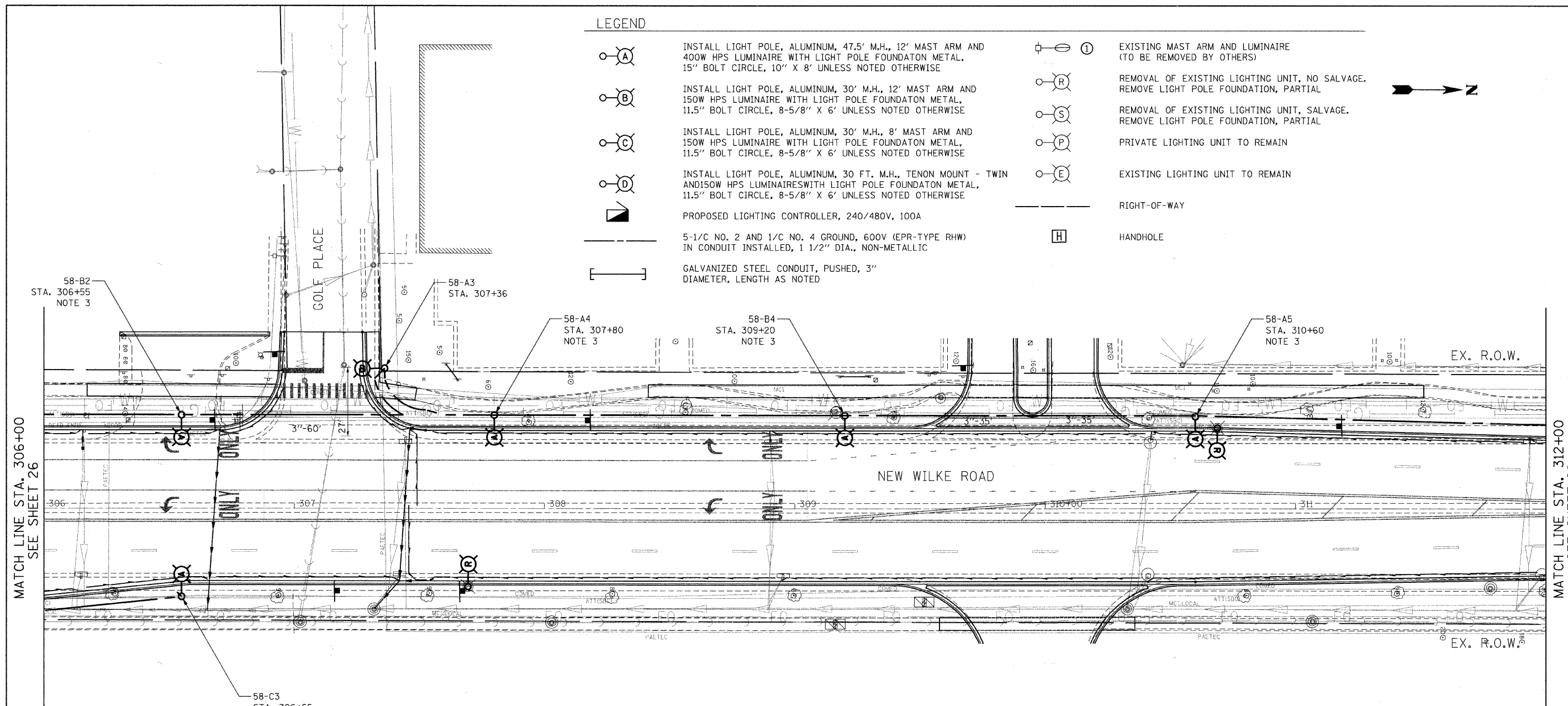
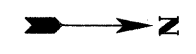
F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 26
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FILE NAME = n:\proj\3379\design\proposandplan\3379-Prop27\_GoLF-NR11k.dgn

LEGEND

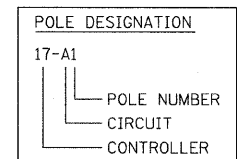
- A INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
- B INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- C INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- D INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
- 5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
- GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED

- I EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
- R REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- S REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- P PRIVATE LIGHTING UNIT TO REMAIN
- E EXISTING LIGHTING UNIT TO REMAIN
- RIGHT-OF-WAY
- H HANDHOLE



NOTES:

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



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**Ciorba Group, Inc.**  
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Chicago, Illinois 60658  
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USER NAME = jvondra	DESIGNED - RJR	REVISED -
PLOT SCALE = 28.0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -















**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

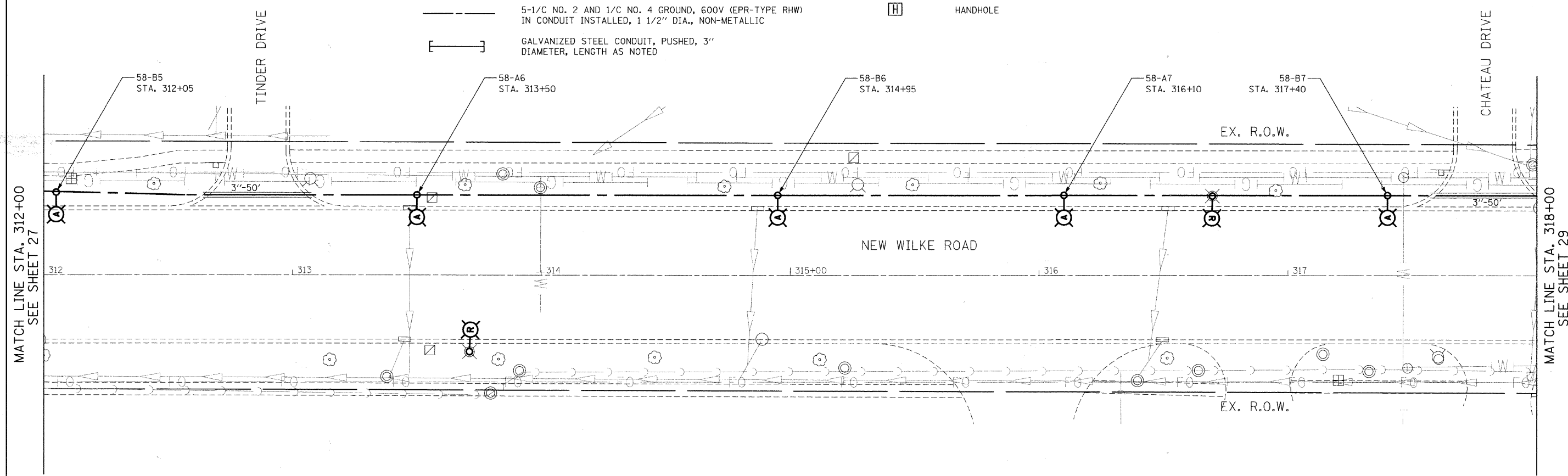
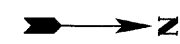
**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
PROPOSED LIGHTING PLAN**

SCALE: 1"=20'    SHEET NO. 27 OF 64 SHEETS    STA. 306+00 TO STA. 312+00

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 27
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

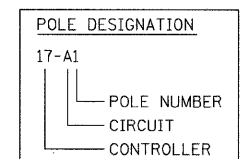
LEGEND

-  INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
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-  PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
-  5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
-  GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
-  EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
-  REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  PRIVATE LIGHTING UNIT TO REMAIN
-  EXISTING LIGHTING UNIT TO REMAIN
-  RIGHT-OF-WAY
-  HANDHOLE



NOTES:

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



FILE NAME = m:\p\c\33799\design\proposals\plan\33799-Pr\_0226.dgn

**Ciorba Group, Inc.**  
 CONSULTING ENGINEERS  
 5507 North Cumberland Avenue, Suite 402  
 Chicago, Illinois 60655  
 Tel. 773.775.4009 Fax 773.775.4014

USER NAME = jvond-a	DESIGNED - RJR	REVISED -
PLOT SCALE = 20,0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -















**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

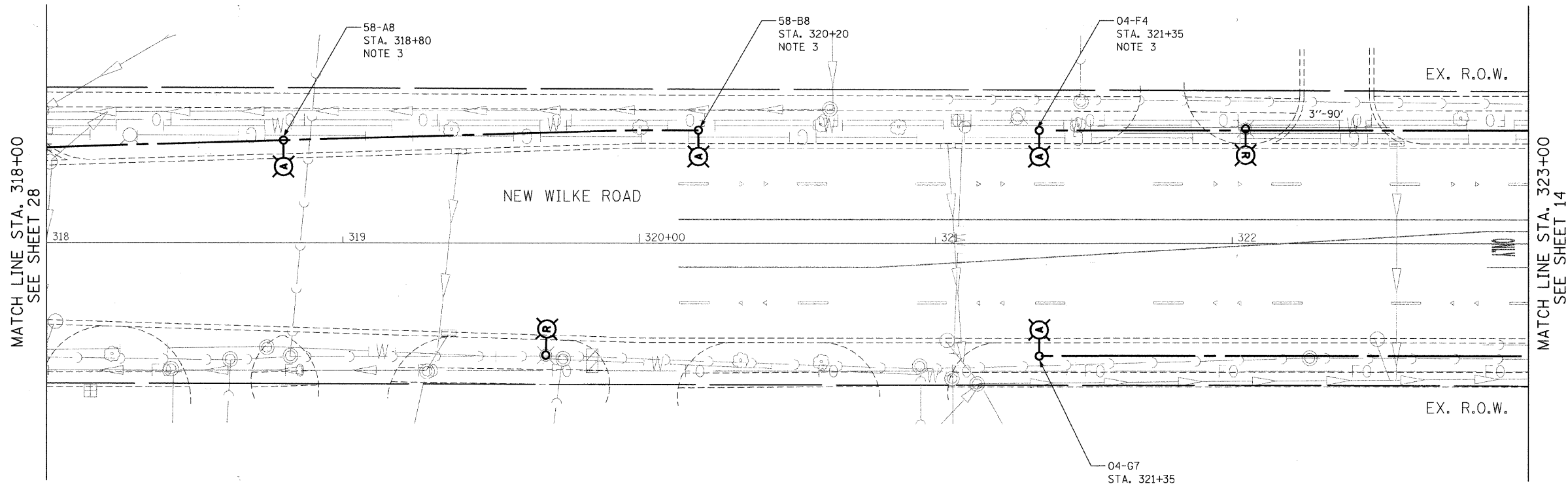
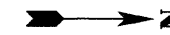
**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
 PROPOSED LIGHTING PLAN**

SCALE: 1"=20' SHEET NO. 28 OF 64 SHEETS STA. 312+00 TO STA. 318+00

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 28
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

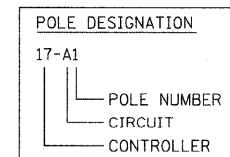
LEGEND

-  INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
-  5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
-  GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
-  EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
-  REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  PRIVATE LIGHTING UNIT TO REMAIN
-  EXISTING LIGHTING UNIT TO REMAIN
-  RIGHT-OF-WAY
-  HANDHOLE



NOTES:

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



FILE NAME = m:\p\3379\design\proposals\plan\3379-Pr.ep.30.dgn



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5507 North Cumberland Avenue, Suite 402  
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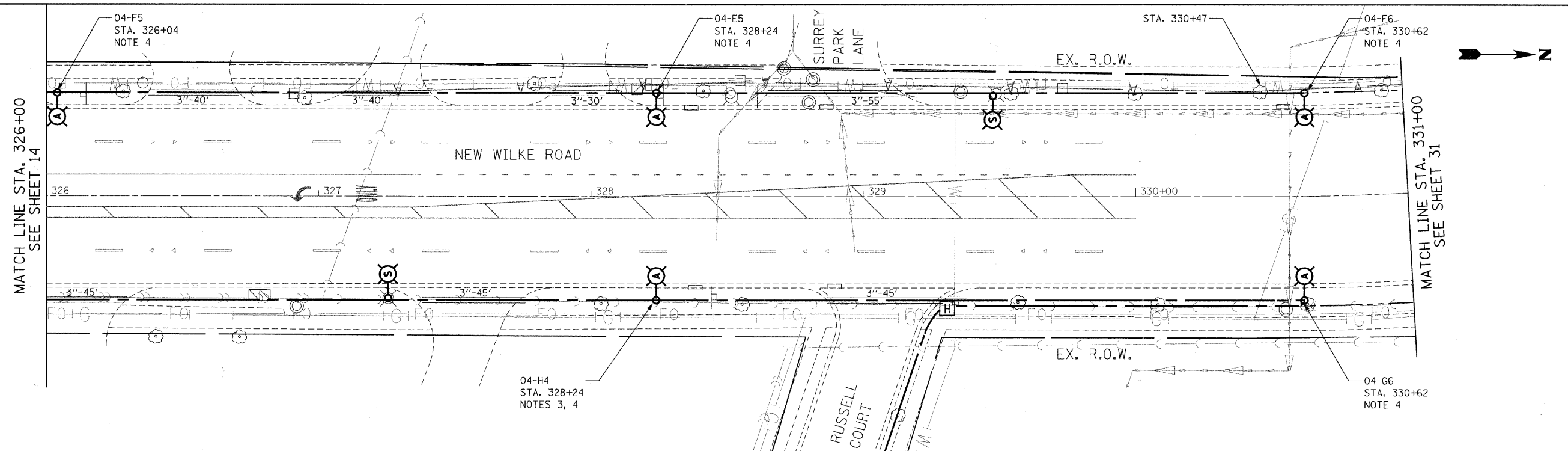
USER NAME = jvondra	DESIGNED - RJR	REVISED -
	DRAWN - RJR	REVISED -
PLOT SCALE = 20,0000' / IN.	CHECKED - JMV	REVISED -
PLOT DATE = 7/12/2010	DATE - 6/16/2010	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
PROPOSED LIGHTING PLAN**

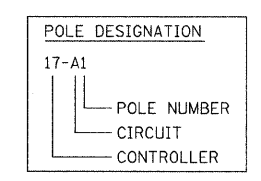
SCALE: 1"=20' SHEET NO. 29 OF 64 SHEETS STA. 318+00 TO STA. 323+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	09-00100-00-LT	COOK	64	29
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**LEGEND**

- INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
- INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
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- INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
- 5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
- GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
- EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
- REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- PRIVATE LIGHTING UNIT TO REMAIN
- EXISTING LIGHTING UNIT TO REMAIN
- RIGHT-OF-WAY
- HANDHOLE



**NOTES:**

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.

FILE NAME = n:\proj\3379\design\p-03000\plan\3379-Prop-31.dgn

**Ciorba Group, Inc.**  
 CONSULTING ENGINEERS  
 5507 North Cumberland Avenue, Suite 402  
 Chicago, Illinois 60656  
 Tel. 773.775.4009 Fax 773.775.4014

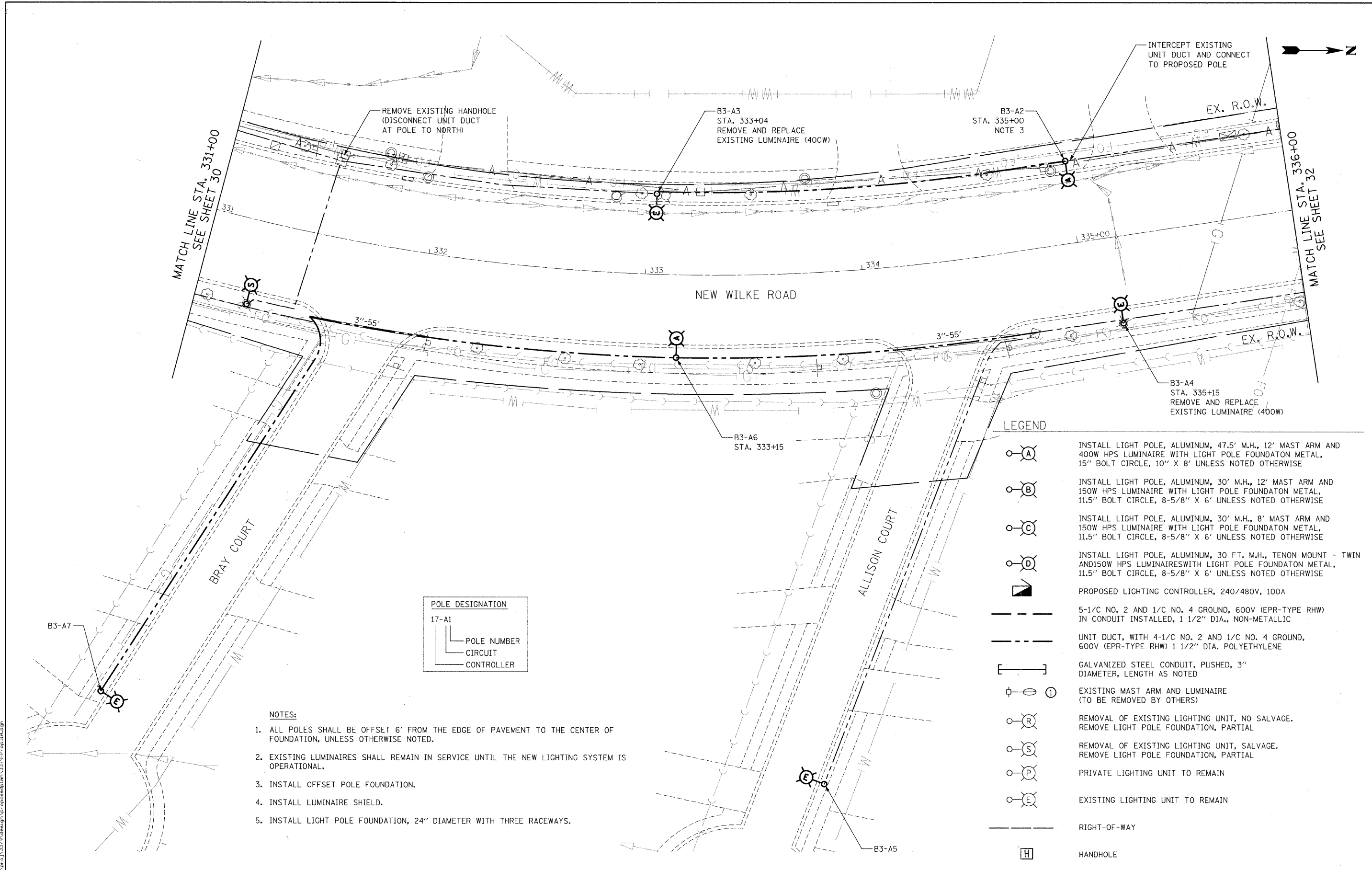
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DRAWN - RJR	CHECKED - JMV	REVISIONS -
PLOT SCALE = 20.0000' / IN.	DATE = 6/16/2010	
PLOT DATE = 7/12/2010		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
 PROPOSED LIGHTING PLAN**

SCALE: 1"=20' SHEET NO. 30 OF 64 SHEETS STA. 326+00 TO STA. 331+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	09-00100-00-LT	COOK	64	30
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



MATCH LINE STA. 331+00  
SEE SHEET 30

MATCH LINE STA. 336+00  
SEE SHEET 32

REMOVE EXISTING HANDHOLE  
(DISCONNECT UNIT DUCT  
AT POLE TO NORTH)

B3-A3  
STA. 333+04  
REMOVE AND REPLACE  
EXISTING LUMINAIRE (400W)

B3-A2  
STA. 335+00  
NOTE 3

INTERCEPT EXISTING  
UNIT DUCT AND CONNECT  
TO PROPOSED POLE

EX. R.O.W.

NEW WILKE ROAD

BRAY COURT

ALLISON COURT

B3-A4  
STA. 335+15  
REMOVE AND REPLACE  
EXISTING LUMINAIRE (400W)

B3-A6  
STA. 333+15

POLE DESIGNATION	
17-A1	POLE NUMBER
17-A1	CIRCUIT
17-A1	CONTROLLER

LEGEND

- INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
- INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
- 5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
- UNIT DUCT, WITH 4-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) 1 1/2" DIA. POLYETHYLENE
- GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
- EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
- REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- PRIVATE LIGHTING UNIT TO REMAIN
- EXISTING LIGHTING UNIT TO REMAIN
- RIGHT-OF-WAY
- HANDHOLE

NOTES:

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.

FILE NAME = m:\p\rc\3379\design\proposed\plan\3379-Prop31A.dgn



**Ciorba Group, Inc.**  
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5507 North Cumberland Avenue, Suite 402  
Chicago, Illinois 60658  
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = jvond-a	DESIGNED - RJR	REVISED -
PLOT SCALE = 28.0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
PROPOSED LIGHTING PLAN

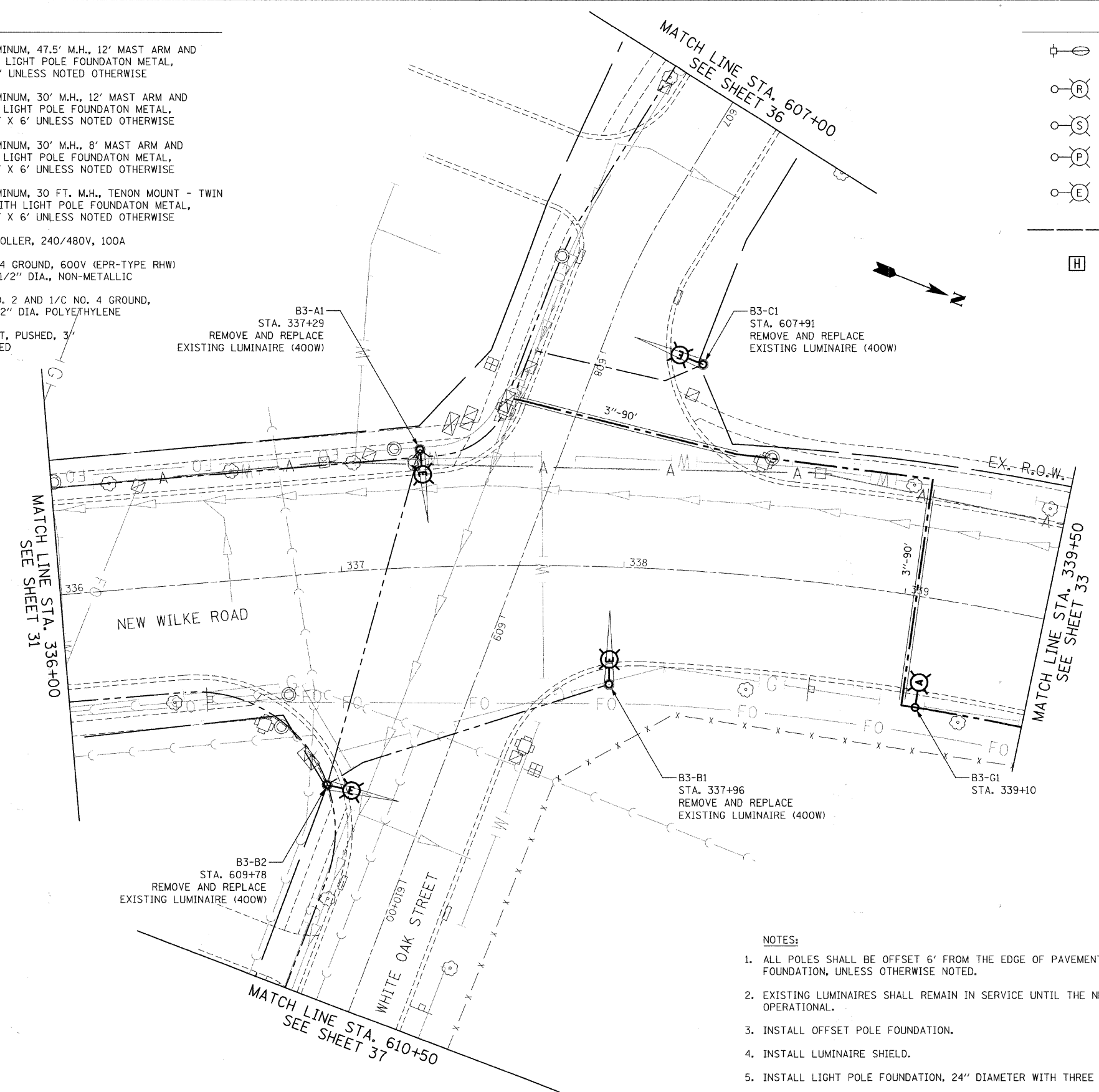
SCALE: 1"=20' SHEET NO. 31 OF 64 SHEETS STA. 331+00 TO STA. 336+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	09-00100-00-LT	COOK	64	31
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				

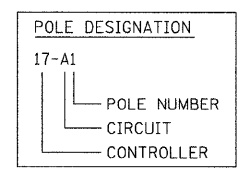
LEGEND

- INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
- INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
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- INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
- 5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
- UNIT DUCT, WITH 4-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) 1 1/2" DIA. POLYETHYLENE
- GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED

- EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
- REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE REMOVE LIGHT POLE FOUNDATION, PARTIAL
- REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- PRIVATE LIGHTING UNIT TO REMAIN
- EXISTING LIGHTING UNIT TO REMAIN
- RIGHT-OF-WAY
- HANDHOLE



- NOTES:**
- ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
  - EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
  - INSTALL OFFSET POLE FOUNDATION.
  - INSTALL LUMINAIRE SHIELD.
  - INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



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**Ciorba Group, Inc.**  
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 Tel. 773.775.4009 Fax 773.775.4014

USER NAME = jvondra	DESIGNED - RJR	REVISED -
PLOT SCALE = 20,0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**
















**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
 PROPOSED LIGHTING PLAN**

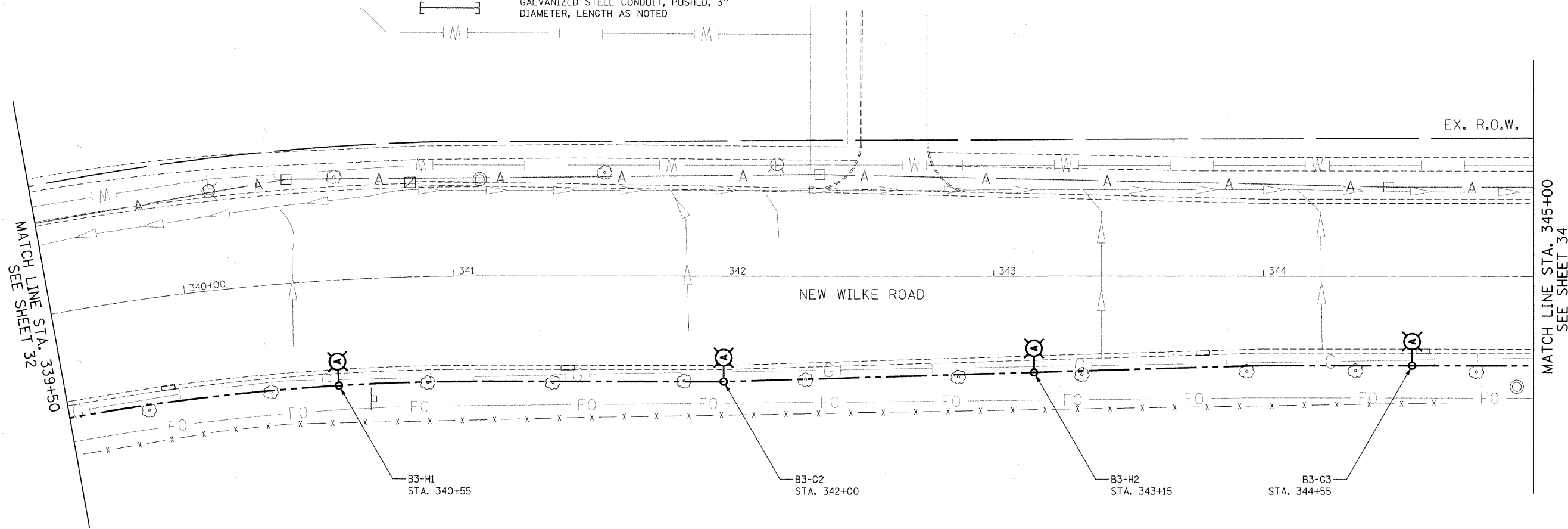
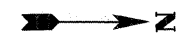
SCALE: 1"=20' SHEET NO. 32 OF 64 SHEETS STA. 336+00 TO STA. 339+50

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 32
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



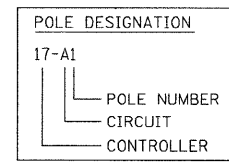
LEGEND

-  INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
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-  EXISTING LIGHTING UNIT TO REMAIN
-  EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
-  REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  PRIVATE LIGHTING UNIT TO REMAIN
-  RIGHT-OF-WAY
-  HANDHOLE
-  PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
-  5-1/2" NO. 2 AND 1/2" NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
-  UNIT DUCT, WITH 4-1/2" NO. 2 AND 1/2" NO. 4 GROUND, 600V (EPR-TYPE RHW) 1 1/2" DIA. POLYETHYLENE
-  GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED



NOTES:

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
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3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



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USER NAME = jvandra	DESIGNED - RJR	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -
















**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

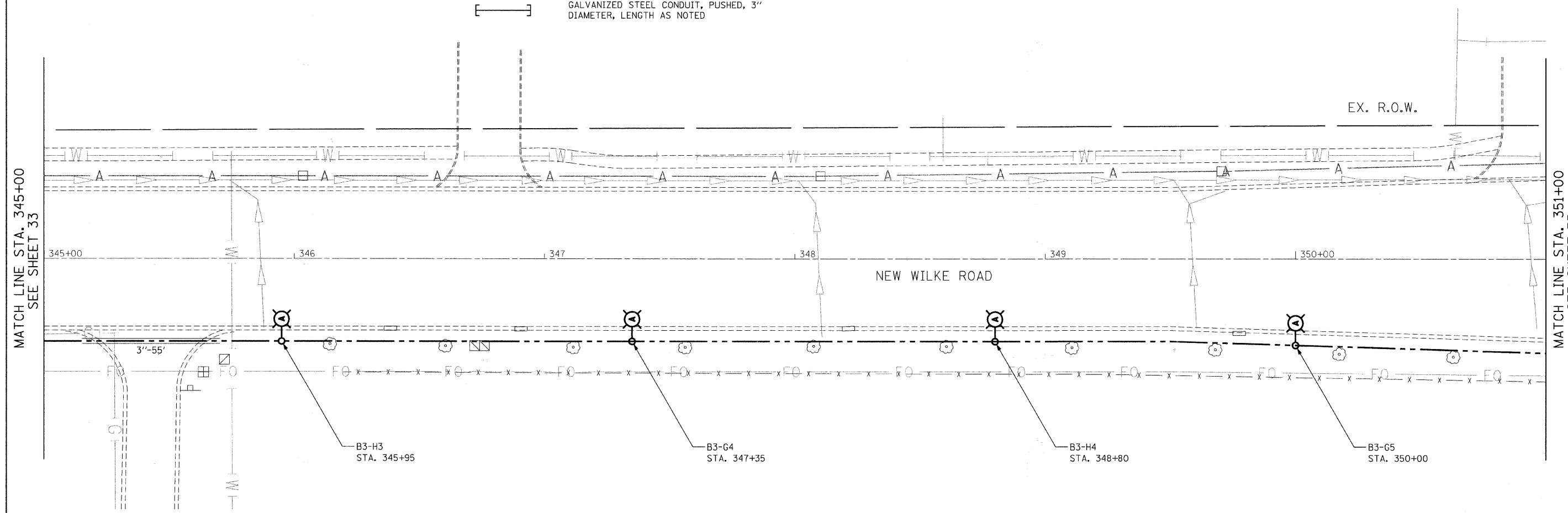
**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
PROPOSED LIGHTING PLAN**

SCALE: 1"=20'    SHEET NO. 33 OF 64 SHEETS    STA. 339+50 TO STA. 345+00

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 33
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				

**LEGEND**

-  INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
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-  5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
-  UNIT DUCT, WITH 4-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) 1 1/2" DIA. POLYETHYLENE
-  GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
-  EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
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-  PRIVATE LIGHTING UNIT TO REMAIN
-  EXISTING LIGHTING UNIT TO REMAIN
-  RIGHT-OF-WAY
-  HANDHOLE

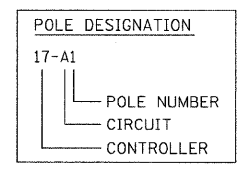


MATCH LINE STA. 345+00  
SEE SHEET 33

MATCH LINE STA. 351+00  
SEE SHEET 35

**NOTES:**

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
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5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



FILE NAME: n:\prow\3379\design\proposed\plan\3379-Prop310.dgn

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USER NAME = jvondra	DESIGNED - RJR	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -















**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

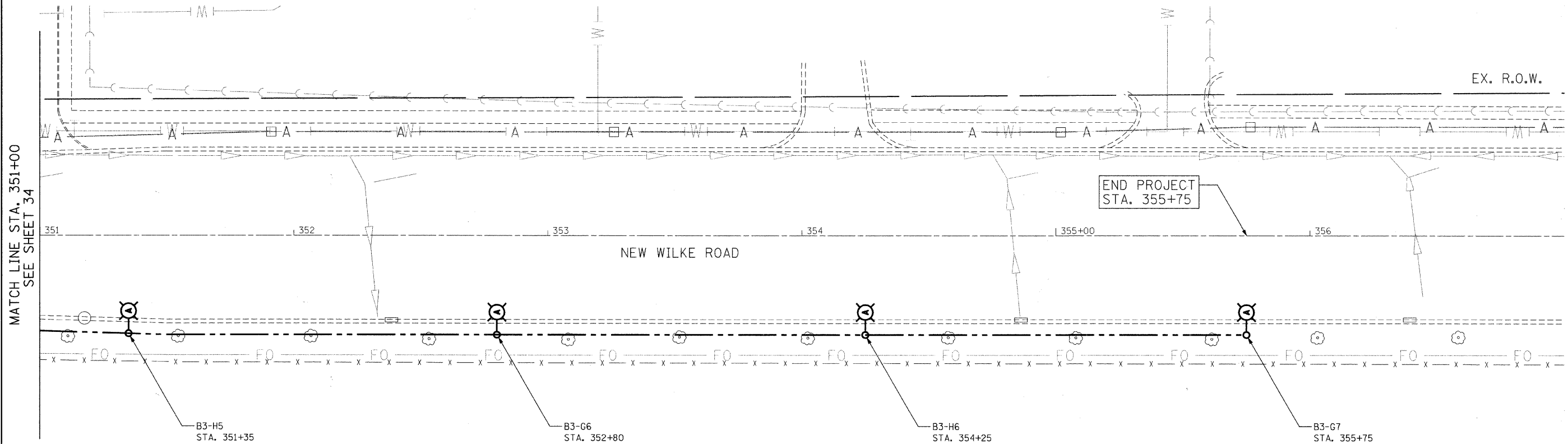
**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
PROPOSED LIGHTING PLAN**

SCALE: 1"=20'    SHEET NO. 34 OF 64 SHEETS    STA. 345+00 TO STA. 351+00

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 34
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LEGEND

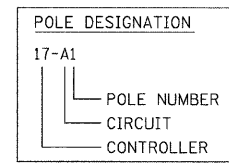
-  INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
-  5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
-  UNIT DUCT, WITH 4-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) 1 1/2" DIA. POLYETHYLENE
-  GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
-  EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
-  REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  PRIVATE LIGHTING UNIT TO REMAIN
-  EXISTING LIGHTING UNIT TO REMAIN
-  HANDHOLE



MATCH LINE STA. 351+00  
SEE SHEET 34

NOTES:

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



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**Ciorba Group, Inc.**  
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USER NAME = jvondra	DESIGNED - RJR	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -









**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**








**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
PROPOSED LIGHTING PLAN**

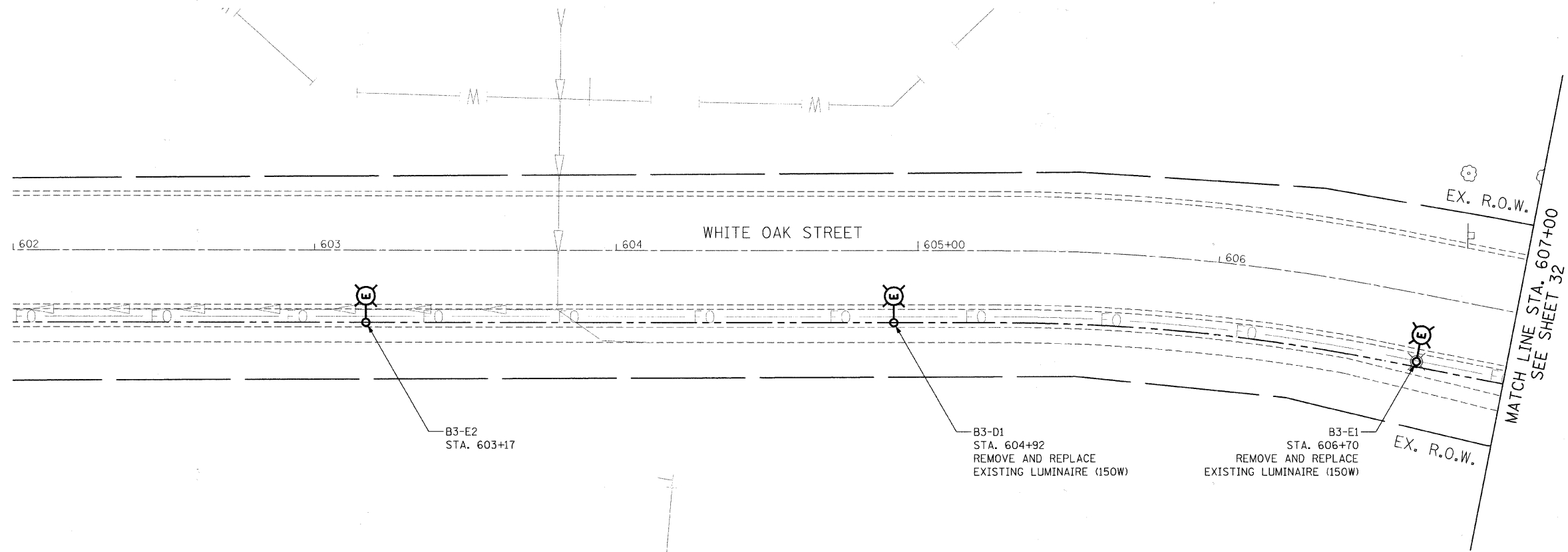
SCALE: 1"=20'    SHEET NO. 35 OF 64 SHEETS    STA. 351+00 TO STA. 357+00

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 35
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**LEGEND**

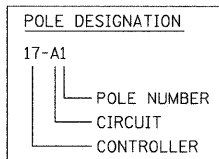
-  **A** INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
-  **B** INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  **C** INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  **D** INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
-  5-1/2" NO. 2 AND 1/2" NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
-  UNIT DUCT, WITH 4-1/2" NO. 2 AND 1/2" NO. 4 GROUND, 600V (EPR-TYPE RHW) 1 1/2" DIA. POLYETHYLENE
-  GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED

-  **Ⓜ** EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
-  **R** REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  **S** REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  **P** PRIVATE LIGHTING UNIT TO REMAIN
-  **E** EXISTING LIGHTING UNIT TO REMAIN
-  RIGHT-OF-WAY
-  **H** HANDHOLE



**NOTES:**

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



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 Tel. 773.775.4009 Fax 773.775.4014

USER NAME = jvondra	DESIGNED - RJR	REVISED -
DRAWN - RJR	REVISIONS -	
CHECKED - JMV	REVISIONS -	
DATE - 6/16/2010	REVISIONS -	
PLOT SCALE = 20,0000' / IN.		
PLOT DATE = 7/12/2010		









**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

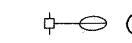
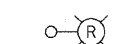
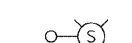
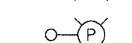
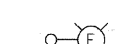

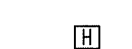
**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
 PROPOSED LIGHTING PLAN**

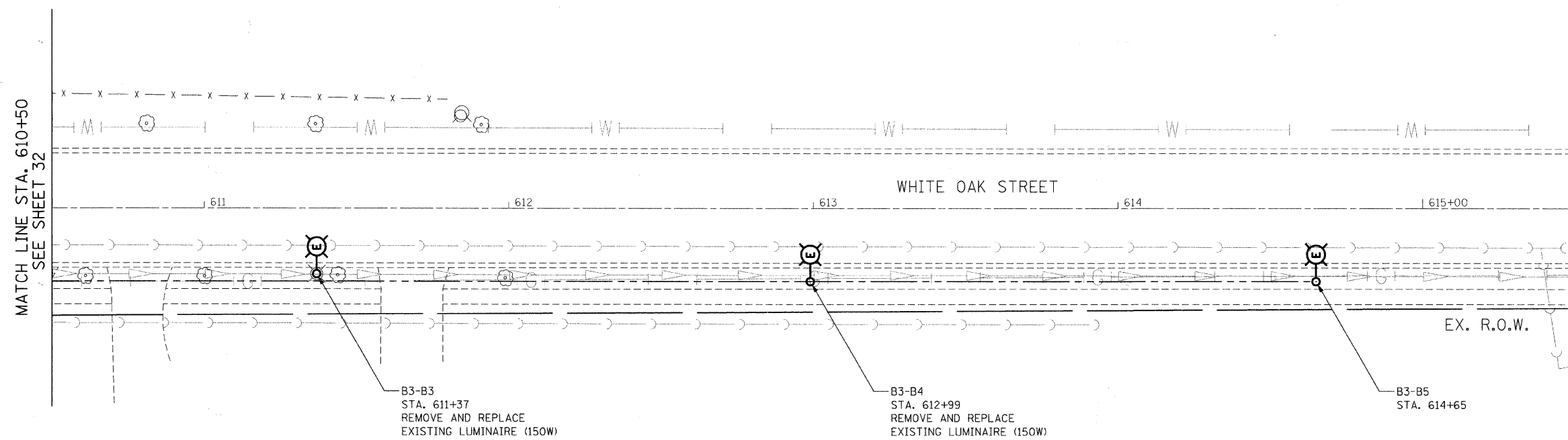
SCALE: 1"=20' SHEET NO. 36 OF 64 SHEETS STA. 602+00 TO STA. 607+00

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 36
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

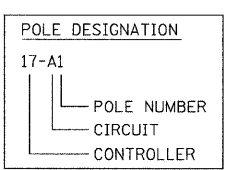
LEGEND

-  INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
-  5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
-  UNIT DUCT, WITH 4-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) 1 1/2" DIA. POLYETHYLENE
-  GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED

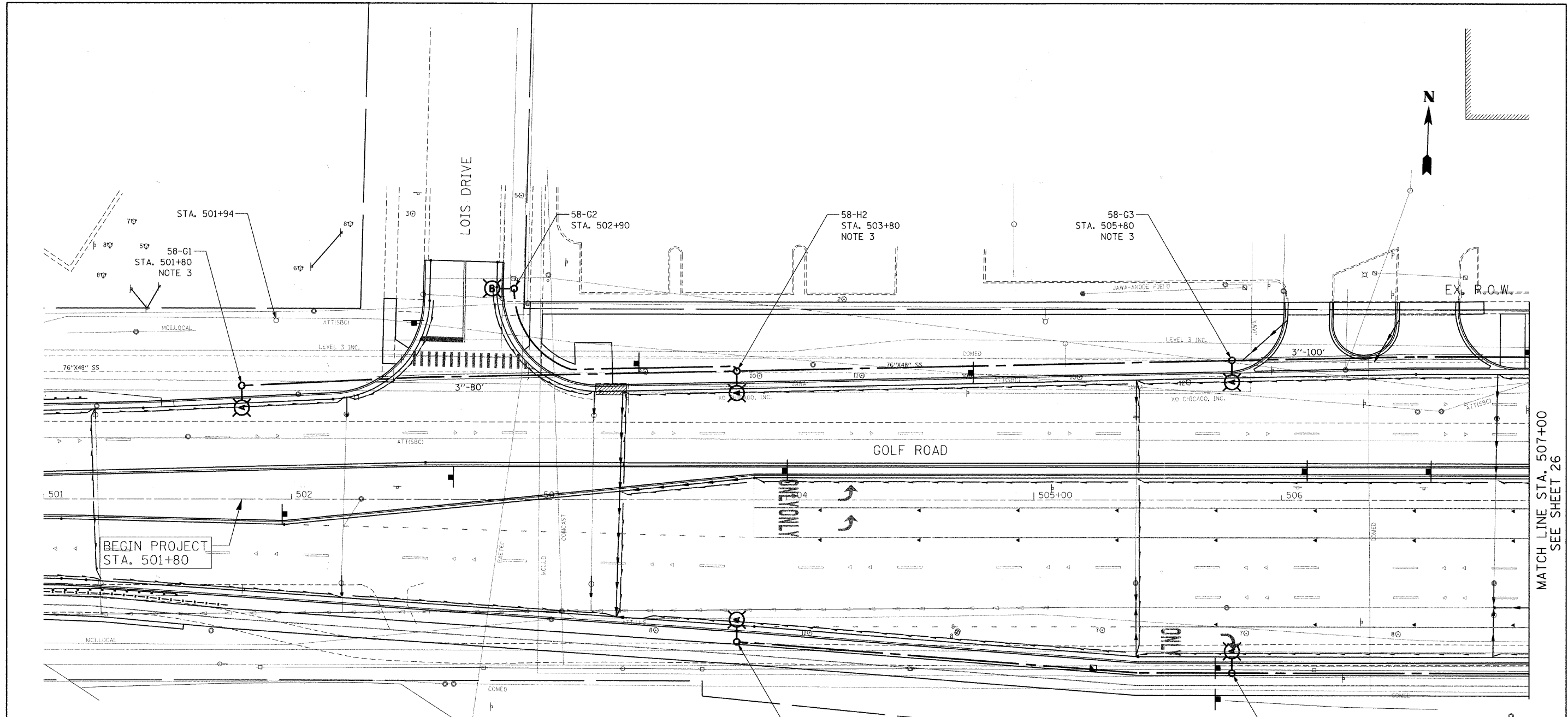
-  EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
-  REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  PRIVATE LIGHTING UNIT TO REMAIN
-  EXISTING LIGHTING UNIT TO REMAIN
-  RIGHT-OF-WAY
-  HANDHOLE



- NOTES:
1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
  2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
  3. INSTALL OFFSET POLE FOUNDATION.
  4. INSTALL LUMINAIRE SHIELD.
  5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



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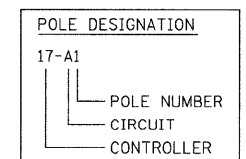
MATCH LINE STA. 507+00  
SEE SHEET 26

**LEGEND**

- A** INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
- B** INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- C** INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- D** INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
- E** EXISTING LIGHTING UNIT TO REMAIN
- F** PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
- G** 5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
- H** HANDHOLE
- I** EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
- R** REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- S** REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- P** PRIVATE LIGHTING UNIT TO REMAIN
- Q** RIGHT-OF-WAY

**NOTES:**

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.

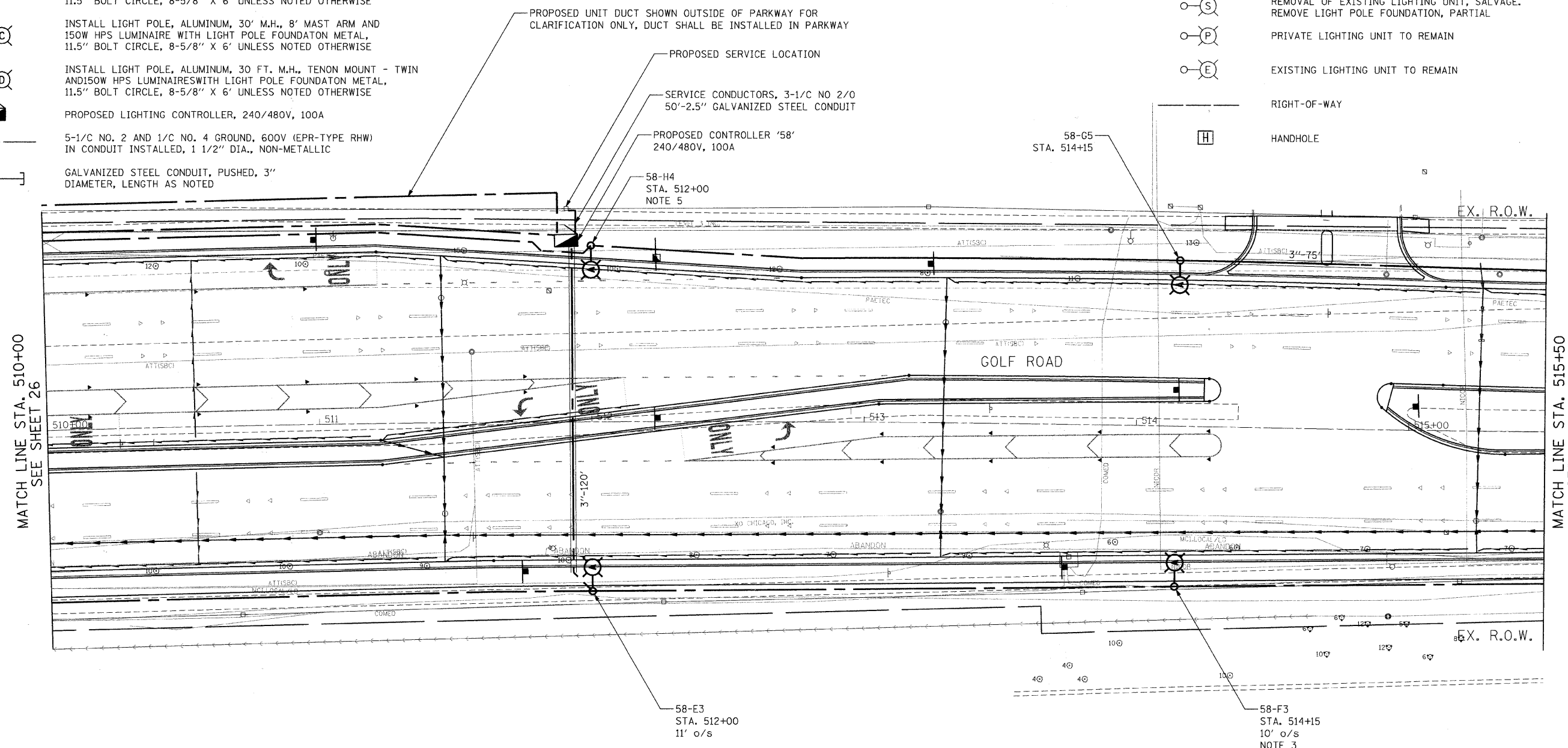


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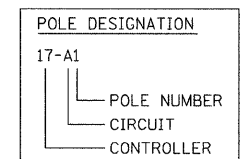
- INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
- INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
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- PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
- 5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
- GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED

- EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
- REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
- PRIVATE LIGHTING UNIT TO REMAIN
- EXISTING LIGHTING UNIT TO REMAIN
- HANDHOLE
- RIGHT-OF-WAY



NOTES:

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5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



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5507 North Cumberland Avenue, Suite 402  
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USER NAME = jvondra	DESIGNED - RJR	REVISED -
PLOT SCALE = 28.0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -








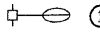
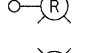
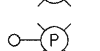

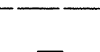

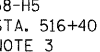
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

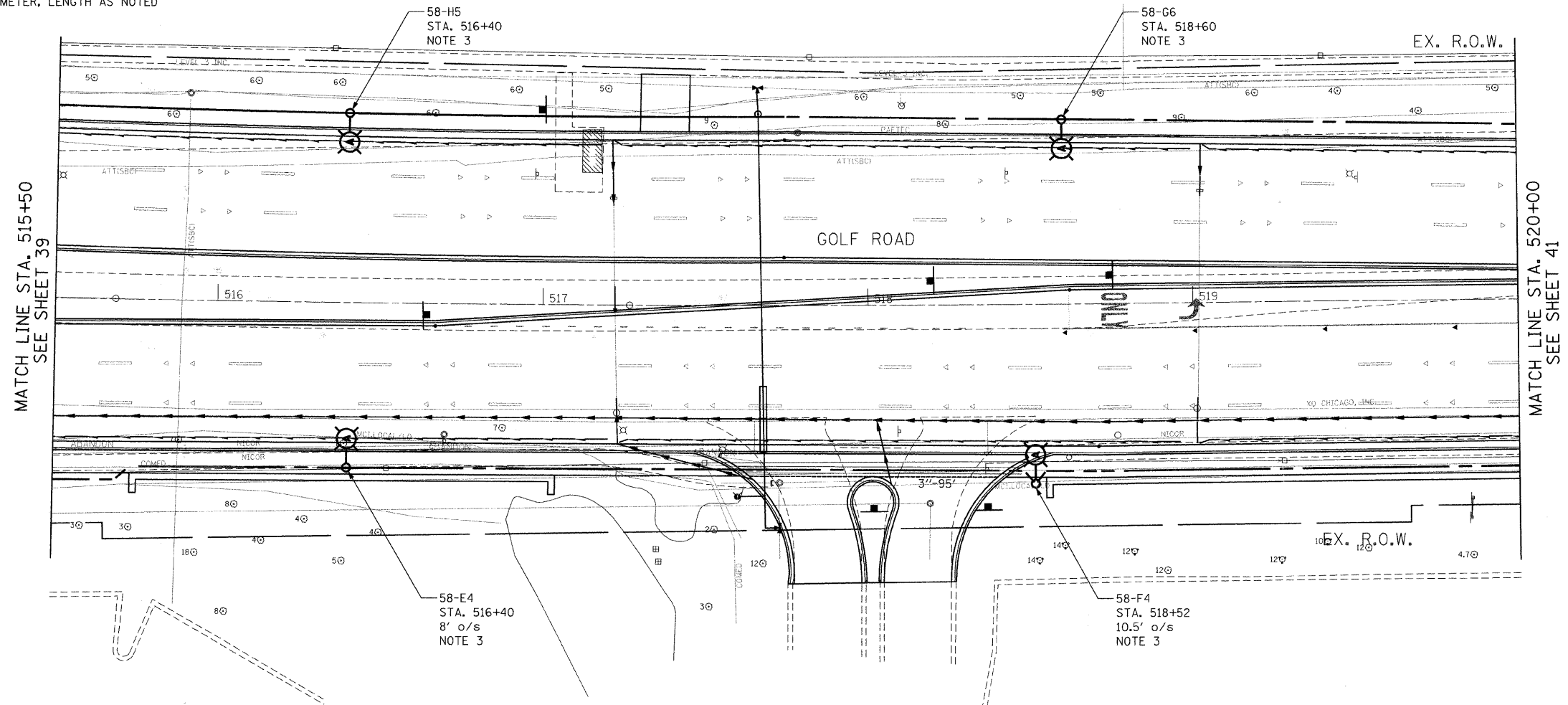
**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
PROPOSED LIGHTING PLAN**

SCALE: 1"=20' SHEET NO. 39 OF 64 SHEETS STA. 510+00 TO STA. 515+50

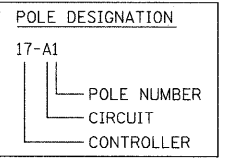
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	09-00100-00-LT	COOK	64	39
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LEGEND

-  INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
-  5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
-  GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
-  EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
-  REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  PRIVATE LIGHTING UNIT TO REMAIN
-  EXISTING LIGHTING UNIT TO REMAIN
-  RIGHT-OF-WAY
-  HANDHOLE



- NOTES:
1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
  2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
  3. INSTALL OFFSET POLE FOUNDATION.
  4. INSTALL LUMINAIRE SHIELD.
  5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



FILE NAME = m:\p\c\33779\design\proposed\plan\33779-Pr-ep34.dgn



**Ciorba Group, Inc.**  
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 5507 North Cumberland Avenue, Suite 402  
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 Tel. 773.775.4009 Fax 773.775.4014

USER NAME = jvondra	DESIGNED - RJR	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
 PROPOSED LIGHTING PLAN**

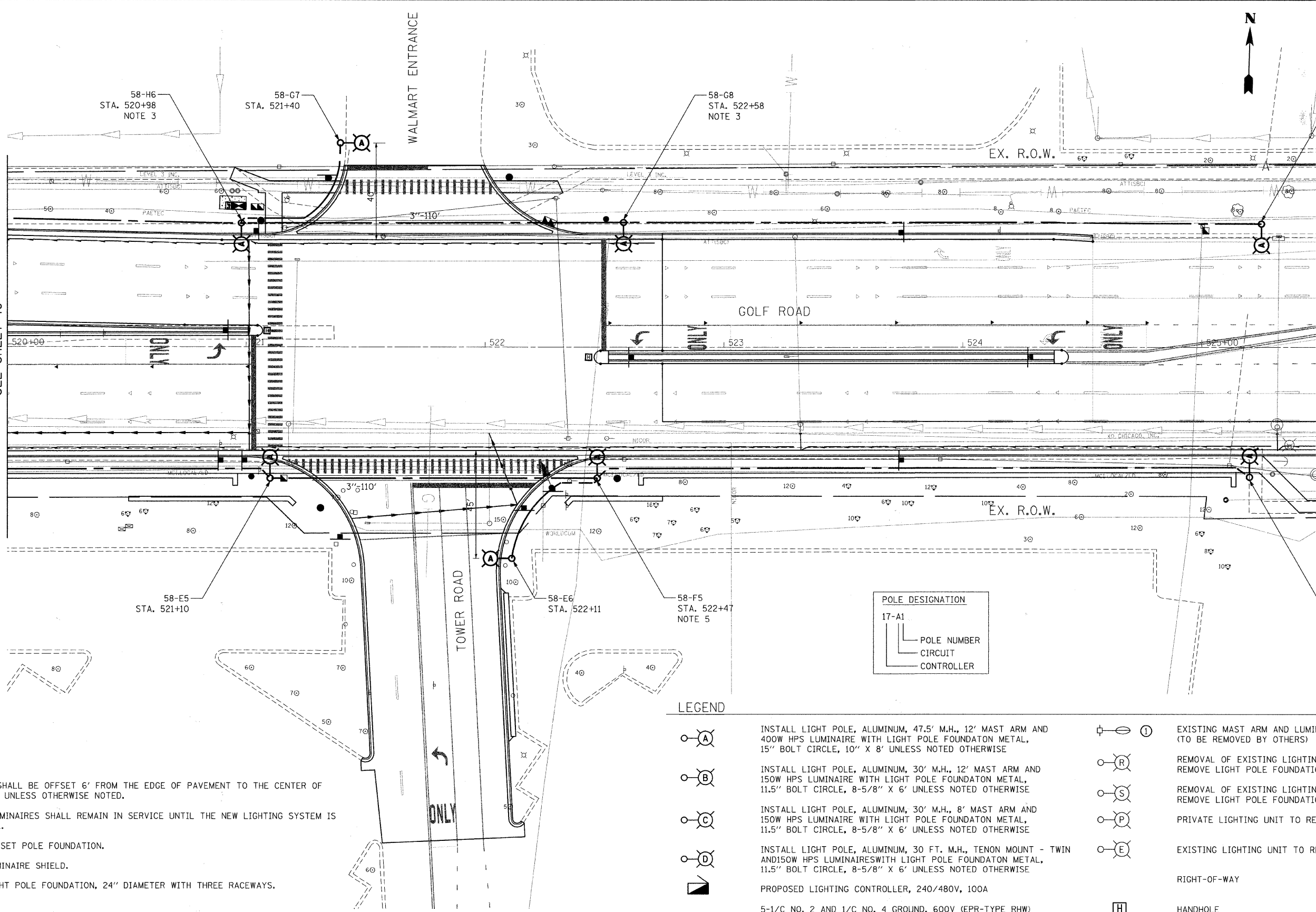
SCALE: 1"=20' SHEET NO. 40 OF 64 SHEETS STA. 515+50 TO STA. 520+00

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 40
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				

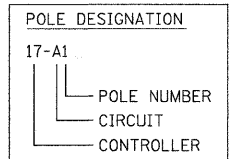


MATCH LINE STA. 520+00  
SEE SHEET 40

MATCH LINE STA. 525+50  
SEE SHEET 42



- NOTES:**
1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
  2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
  3. INSTALL OFFSET POLE FOUNDATION.
  4. INSTALL LUMINAIRE SHIELD.
  5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



- LEGEND**
- INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
  - INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
  - INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
  - INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
  - PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
  - 5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
  - GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
  - EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
  - REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
  - REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
  - PRIVATE LIGHTING UNIT TO REMAIN
  - EXISTING LIGHTING UNIT TO REMAIN
  - RIGHT-OF-WAY
  - HANDHOLE

FILE NAME = n:\p\proj\3379\design\proposals\3379-Prop-35.edgn

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USER NAME = jvandra	DESIGNED - RJR	REVISED -
PLOT SCALE = 20,000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -








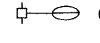
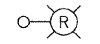
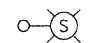
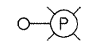
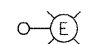
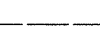
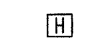
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

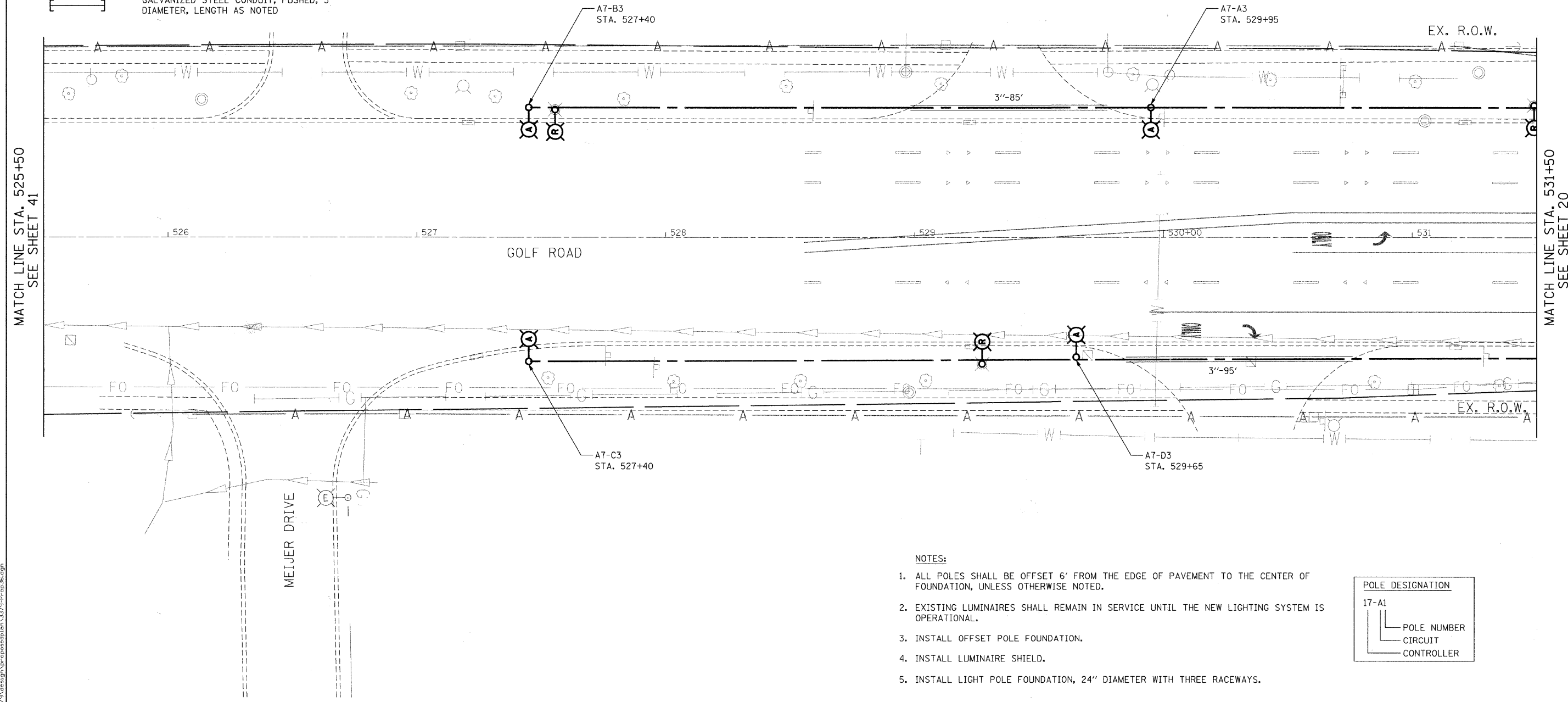
**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
PROPOSED LIGHTING PLAN**

SCALE: 1"=20' SHEET NO. 41 OF 64 SHEETS STA. 520+00 TO STA. 525+50

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 41
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

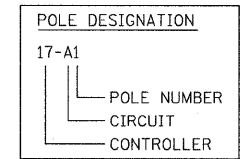
LEGEND

-  INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
-  5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
-  GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
-  EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
-  REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  PRIVATE LIGHTING UNIT TO REMAIN
-  EXISTING LIGHTING UNIT TO REMAIN
-  RIGHT-OF-WAY
-  HANDHOLE



NOTES:

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



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**Ciorba Group, Inc.**  
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5507 North Cumberland Avenue, Suite 402  
Chicago, Illinois 60658  
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USER NAME = jvondra	DESIGNED - RJR	REVISED -
PLOT SCALE = 20,0000 / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -











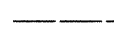

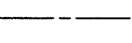
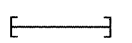
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

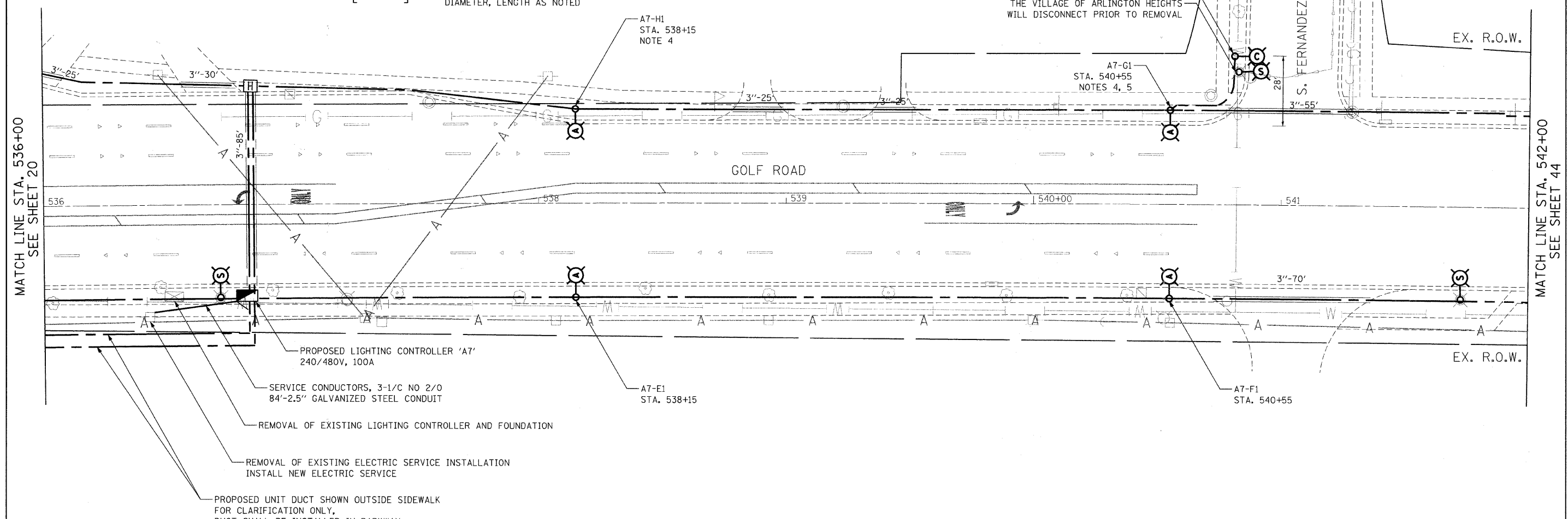
**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
PROPOSED LIGHTING PLAN**

SCALE: 1"=20' SHEET NO. 42 OF 64 SHEETS STA. 525+50 TO STA. 531+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	09-00100-00-LT	COOK	64	42
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**LEGEND**

-  INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  EXISTING LIGHTING UNIT TO REMAIN
-  REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  HANDHOLE
-  EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
-  PRIVATE LIGHTING UNIT TO REMAIN
-  RIGHT-OF-WAY
-  PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
-  5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
-  GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED



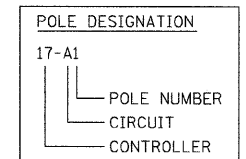
MATCH LINE STA. 536+00  
SEE SHEET 20

MATCH LINE STA. 542+00  
SEE SHEET 44

- PROPOSED LIGHTING CONTROLLER 'A7'  
240/480V, 100A
- SERVICE CONDUCTORS, 3-1/C NO 2/0  
84'-2.5" GALVANIZED STEEL CONDUIT
- REMOVAL OF EXISTING LIGHTING CONTROLLER AND FOUNDATION
- REMOVAL OF EXISTING ELECTRIC SERVICE INSTALLATION  
INSTALL NEW ELECTRIC SERVICE
- PROPOSED UNIT DUCT SHOWN OUTSIDE SIDEWALK  
FOR CLARIFICATION ONLY,  
DUCT SHALL BE INSTALLED IN PARKWAY
- A7-H1  
STA. 538+15  
NOTE 4
- A7-E1  
STA. 538+15
- A7-G1  
STA. 540+55  
NOTES 4, 5
- A7-F1  
STA. 540+55

**NOTES:**

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



FILE NAME = n:\proj\3379\design\proposals\3379-Prop-37.dgn

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CONSULTING ENGINEERS  
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USER NAME = jvandra	DESIGNED - RJR	REVISED -
PLOT SCALE = 20,0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -








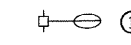
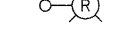
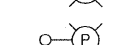
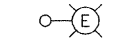



**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
PROPOSED LIGHTING PLAN**

SCALE: 1"=20'    SHEET NO. 43 OF 64 SHEETS    STA. 536+00 TO STA. 542+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	09-00100-00-LT	COOK	64	43
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				

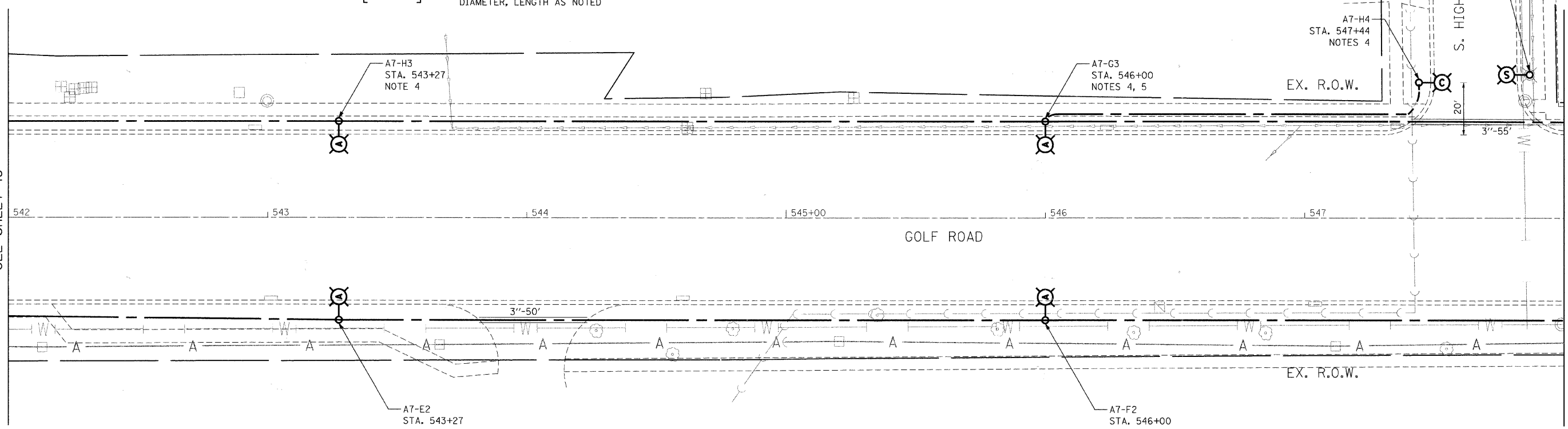
LEGEND

-  INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8" UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
-  5-1/2 NO. 2 AND 1/2 NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
-  GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED
-  EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
-  REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  PRIVATE LIGHTING UNIT TO REMAIN
-  EXISTING LIGHTING UNIT TO REMAIN
-  RIGHT-OF-WAY
-  HANDHOLE

THE VILLAGE OF ARLINGTON HEIGHTS WILL DISCONNECT PRIOR TO REMOVAL

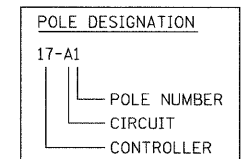
MATCH LINE STA. 542+00  
SEE SHEET 43

MATCH LINE STA. 548+00  
SEE SHEET 45



NOTES:

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.



FILE: \\name\nt\proj\3379\design\proposals\3379-Prop-3B.dgn

**Ciorba Group, Inc.**  
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USER NAME = jvondra	DESIGNED - RJR	REVISED -
PLOT SCALE = 20,0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -













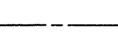
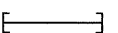
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

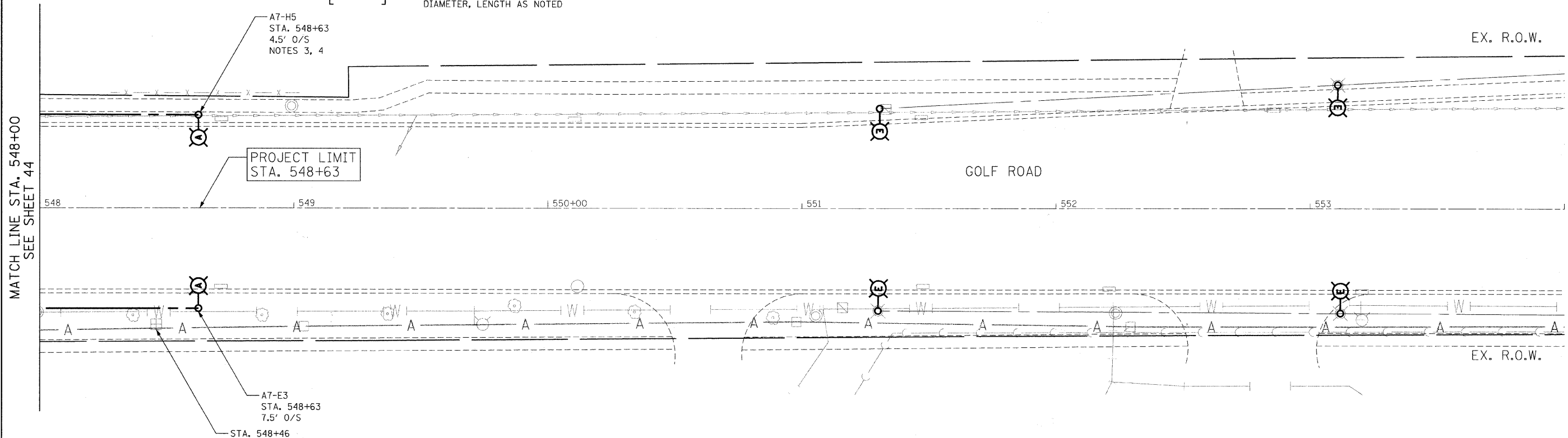
**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
PROPOSED LIGHTING PLAN**

SCALE: 1"=20'    SHEET NO. 44 OF 64 SHEETS    STA. 542+00 TO STA. 548+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	09-00100-00-LT	COOK	64	44
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

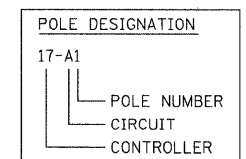
LEGEND

-  INSTALL LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8" UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  INSTALL LIGHT POLE, ALUMINUM, 30 FT. M.H., TENON MOUNT - TWIN AND 150W HPS LUMINAIRES WITH LIGHT POLE FOUNDATION METAL, 11.5" BOLT CIRCLE, 8-5/8" X 6' UNLESS NOTED OTHERWISE
-  PROPOSED LIGHTING CONTROLLER, 240/480V, 100A
-  EXISTING MAST ARM AND LUMINAIRE (TO BE REMOVED BY OTHERS)
-  REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. REMOVE LIGHT POLE FOUNDATION, PARTIAL
-  PRIVATE LIGHTING UNIT TO REMAIN
-  EXISTING LIGHTING UNIT TO REMAIN
-  RIGHT-OF-WAY
-  HANDHOLE
-  5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
-  GALVANIZED STEEL CONDUIT, PUSHED, 3" DIAMETER, LENGTH AS NOTED

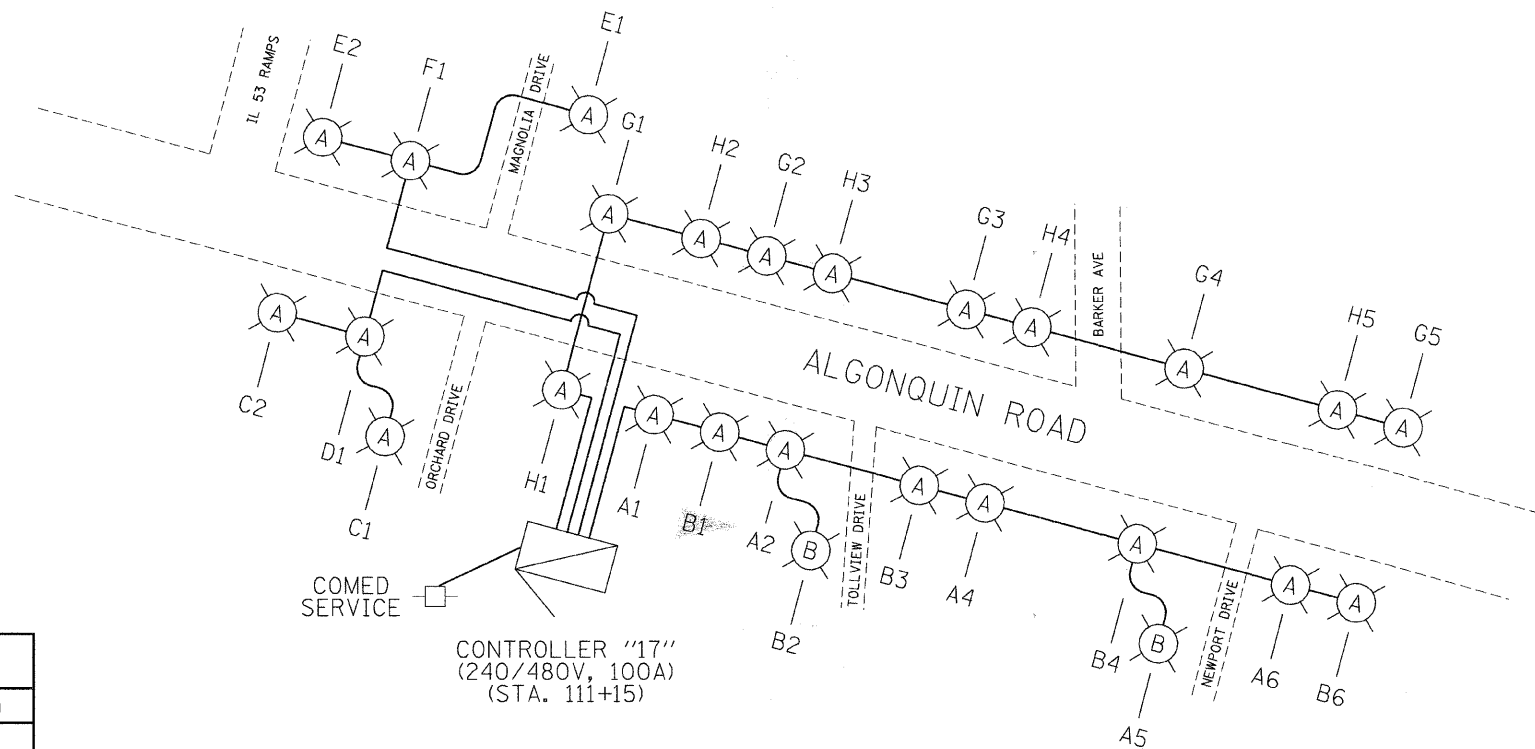


NOTES:

1. ALL POLES SHALL BE OFFSET 6' FROM THE EDGE OF PAVEMENT TO THE CENTER OF FOUNDATION, UNLESS OTHERWISE NOTED.
2. EXISTING LUMINAIRES SHALL REMAIN IN SERVICE UNTIL THE NEW LIGHTING SYSTEM IS OPERATIONAL.
3. INSTALL OFFSET POLE FOUNDATION.
4. INSTALL LUMINAIRE SHIELD.
5. INSTALL LIGHT POLE FOUNDATION, 24" DIAMETER WITH THREE RACEWAYS.

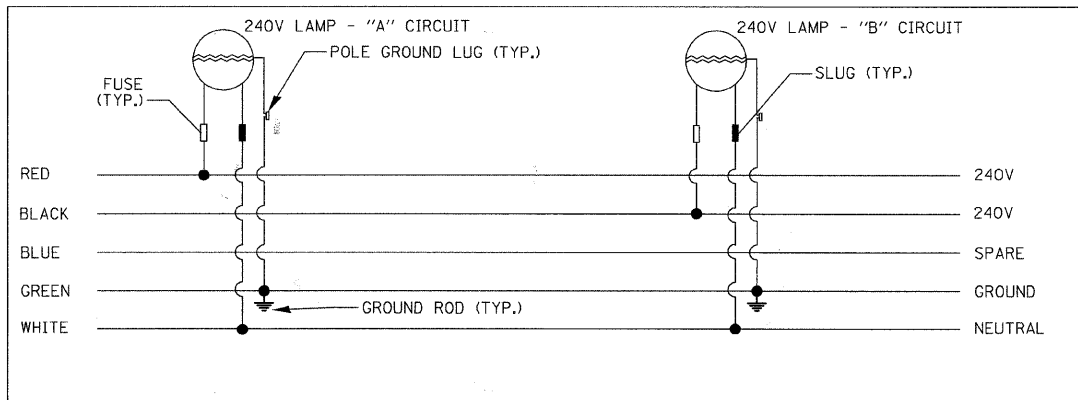


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Load Tabulation for Lighting Controller 17			
Ckt. #	Description	Phase A (Red) (watts)	Phase B (Black) (watts)
A	1-150W, 4-400W	2100	
B	1-150W, 4-400W		2100
C	0-150W, 2-400W	960	
D	0-150W, 1-400W		480
E	0-150W, 2-400W	960	
F	0-150W, 1-400W		480
G	0-150W, 5-400W	2400	
H	0-150W, 5-400W		2400
<b>Totals:</b>		<b>6420</b>	<b>5460</b>

TYPICAL POLE WIRING DIAGRAM



LEGEND

- LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE
- LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE
- LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE
- LIGHT POLE, ALUMINUM, 30' M.H., 2-6' MAST ARMS AND 150W HPS LUMINAIRES
- LIGHTING CONTROLLER, 240/480V, 100A
- 5-1/2" NO. 2 AND 1/2" NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC

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**Ciorba Group, Inc.**  
 CONSULTING ENGINEERS  
 5507 North Cumberland Avenue, Suite 402  
 Chicago, Illinois 60655  
 Tel. 773.775.4009 Fax 773.775.4014

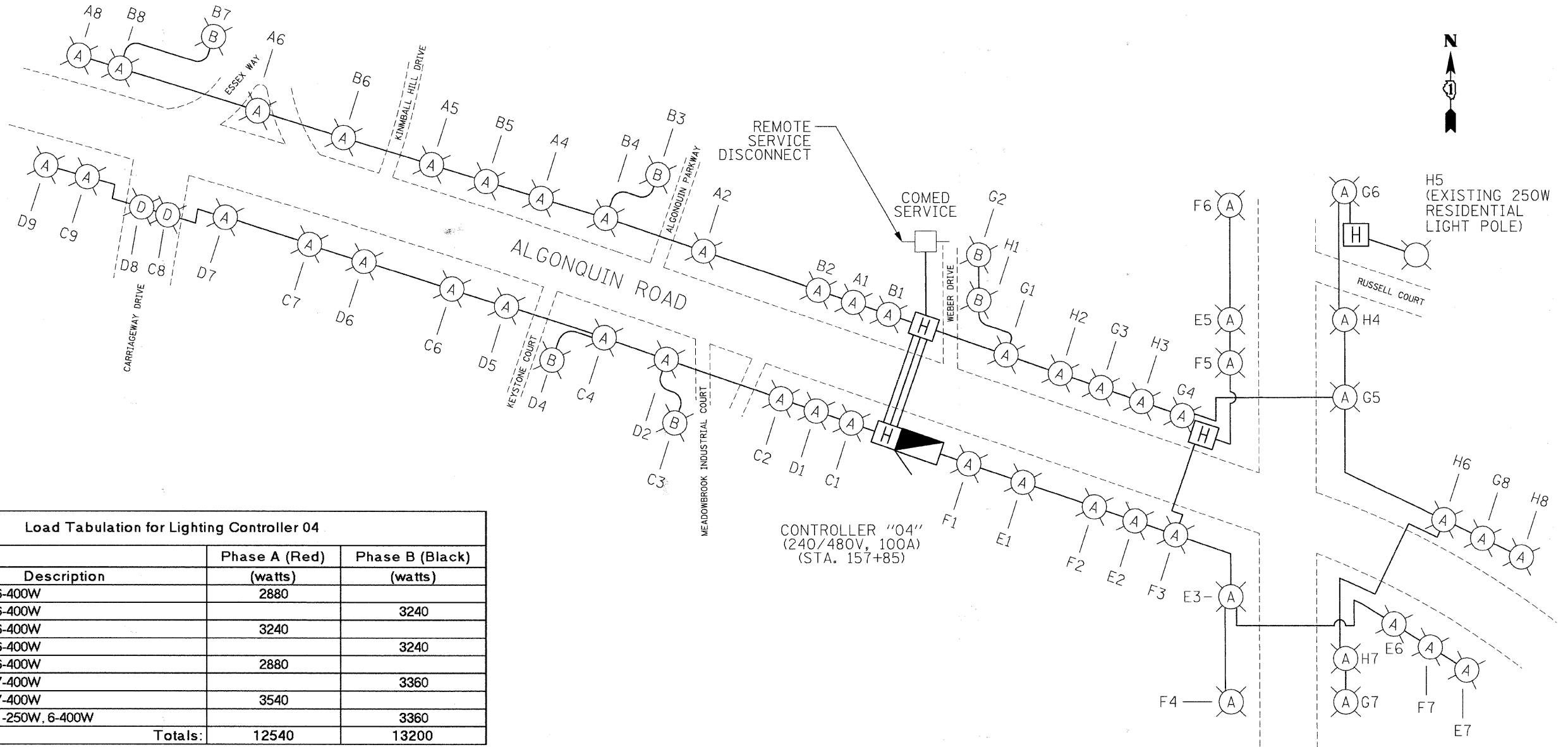
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PLOT SCALE = 200.0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
 LIGHTING CONTROLLER "17" ONE LINE DIAGRAM

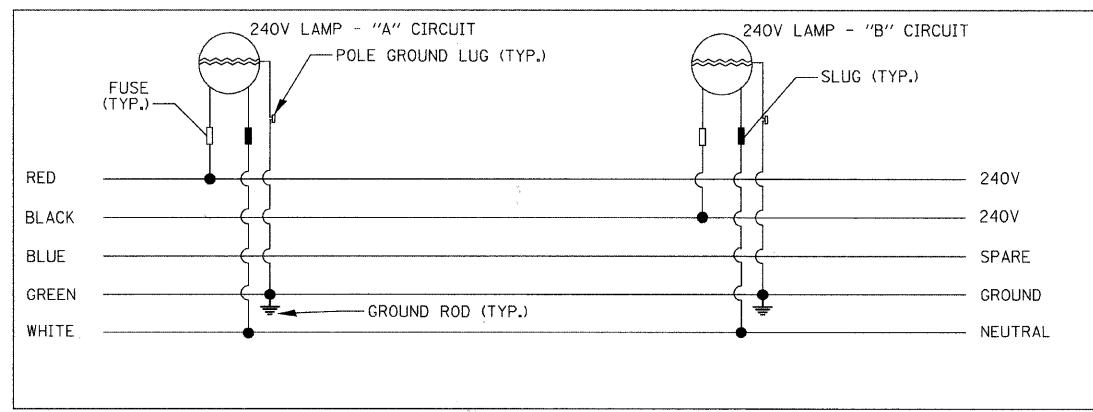
SCALE: N.T.S. SHEET NO. 46 OF 64 SHEETS STA. TO STA.

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 46
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



Ckt. #	Description	Phase A (Red) (watts)	Phase B (Black) (watts)
A	0-150W, 6-400W	2880	
B	2-150W, 6-400W		3240
C	2-150W, 6-400W	3240	
D	2-150W, 6-400W		3240
E	0-150W, 6-400W	2880	
F	0-150W, 7-400W		3360
G	1-150W, 7-400W	3540	
H	1-150W, 1-250W, 6-400W		3360
<b>Totals:</b>		<b>12540</b>	<b>13200</b>

TYPICAL POLE WIRING DIAGRAM



LEGEND

- LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE
- LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE
- LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE
- LIGHT POLE, ALUMINUM, 30' M.H., 2-6' MAST ARMS AND 150W HPS LUMINAIRES
- LIGHTING CONTROLLER, 240/480V, 100A
- 5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC

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**Ciorba Group, Inc.**  
CONSULTING ENGINEERS  
5507 North Cumberland Avenue, Suite 402  
Chicago, Illinois 60656  
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = jvondra	DESIGNED - RJR	REVISED -
PLOT SCALE = 200.0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -







**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
LIGHTING CONTROLLER "04" ONE LINE DIAGRAM**

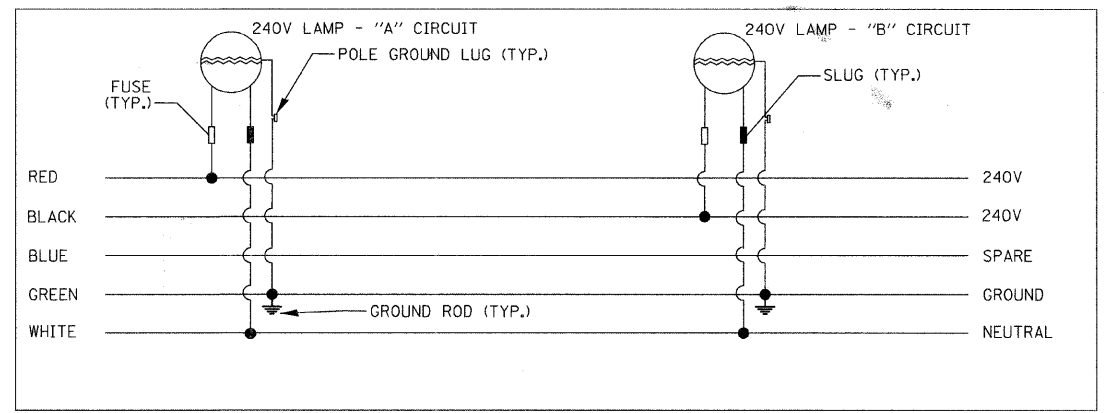
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F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 47
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**LEGEND**

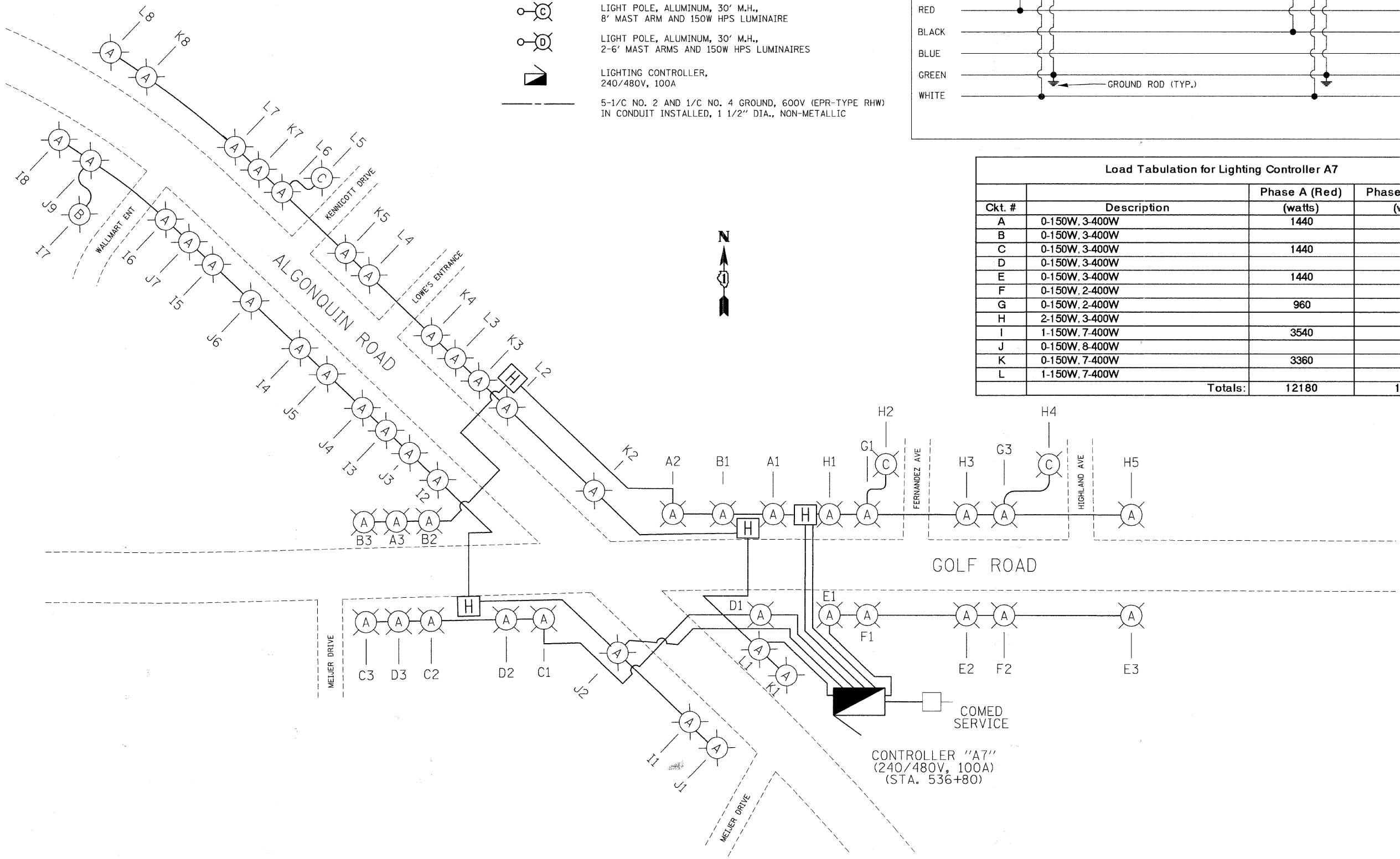
-  LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE
-  LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE
-  LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE
-  LIGHT POLE, ALUMINUM, 30' M.H., 2-6' MAST ARMS AND 150W HPS LUMINAIRES
-  LIGHTING CONTROLLER, 240/480V, 100A
-  5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC

**TYPICAL POLE WIRING DIAGRAM**



**Load Tabulation for Lighting Controller A7**

Ckt. #	Description	Phase A (Red) (watts)	Phase B (Black) (watts)
A	0-150W, 3-400W	1440	
B	0-150W, 3-400W		1440
C	0-150W, 3-400W	1440	
D	0-150W, 3-400W		1440
E	0-150W, 3-400W	1440	
F	0-150W, 2-400W		960
G	0-150W, 2-400W	960	
H	2-150W, 3-400W		1800
I	1-150W, 7-400W	3540	
J	0-150W, 8-400W		3840
K	0-150W, 7-400W	3360	
L	1-150W, 7-400W		3540
<b>Totals:</b>		<b>12180</b>	<b>13020</b>



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**Ciorba Group, Inc.**  
CONSULTING ENGINEERS  
8507 North Cumberland Avenue, Suite 402  
Chicago, Illinois 60656  
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = jvondra	DESIGNED - RJR	REVISED -
PLOT SCALE = 200.0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -

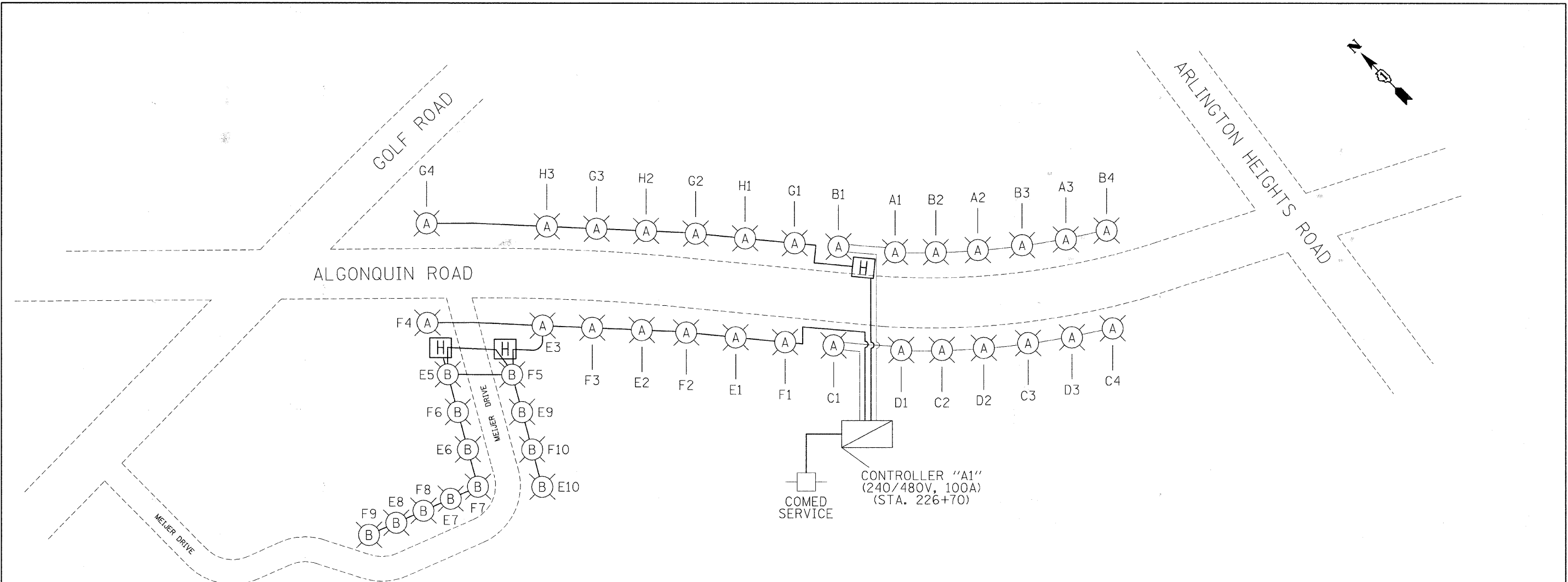
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
LIGHTING CONTROLLER "A7" ONE LINE DIAGRAM**

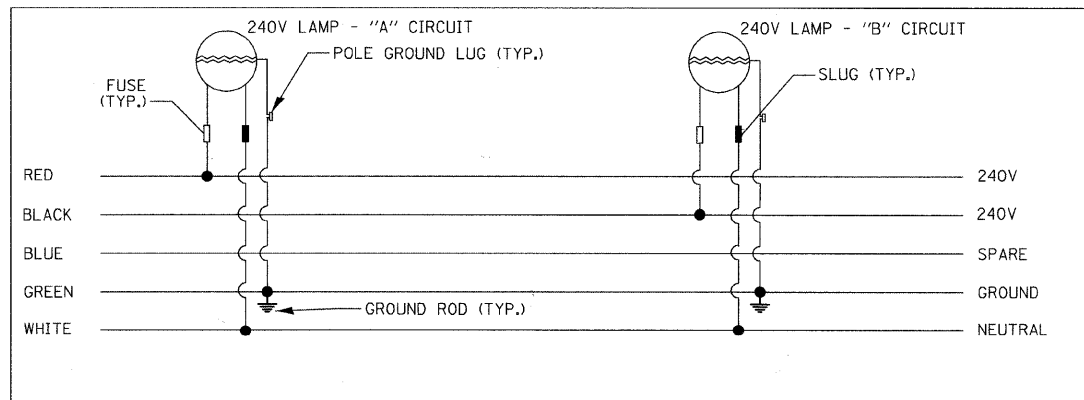
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F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 48
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





TYPICAL POLE WIRING DIAGRAM



LEGEND

- LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE
- LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE
- LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE
- LIGHT POLE, ALUMINUM, 30' M.H., 2-6' MAST ARMS AND 150W HPS LUMINAIRES
- LIGHTING CONTROLLER, 240/480V, 100A
- 5-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC

Load Tabulation for Lighting Controller A1

Ckt. #	Description	Phase A (Red) (watts)	Phase B (Black) (watts)
A	0-150W, 3-400W	1440	
B	0-150W, 4-400W		1920
C	0-150W, 4-400W	1920	
D	0-150W, 3-400W		1440
E	6-150W, 3-400W	2520	
F	6-150W, 4-400W		3000
G	0-150W, 4-400W	1920	
H	0-150W, 3-400W		1440
<b>Totals:</b>		<b>7800</b>	<b>7800</b>

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**Ciorba Group, Inc.**  
CONSULTING ENGINEERS  
5507 North Cumberland Avenue, Suite 402  
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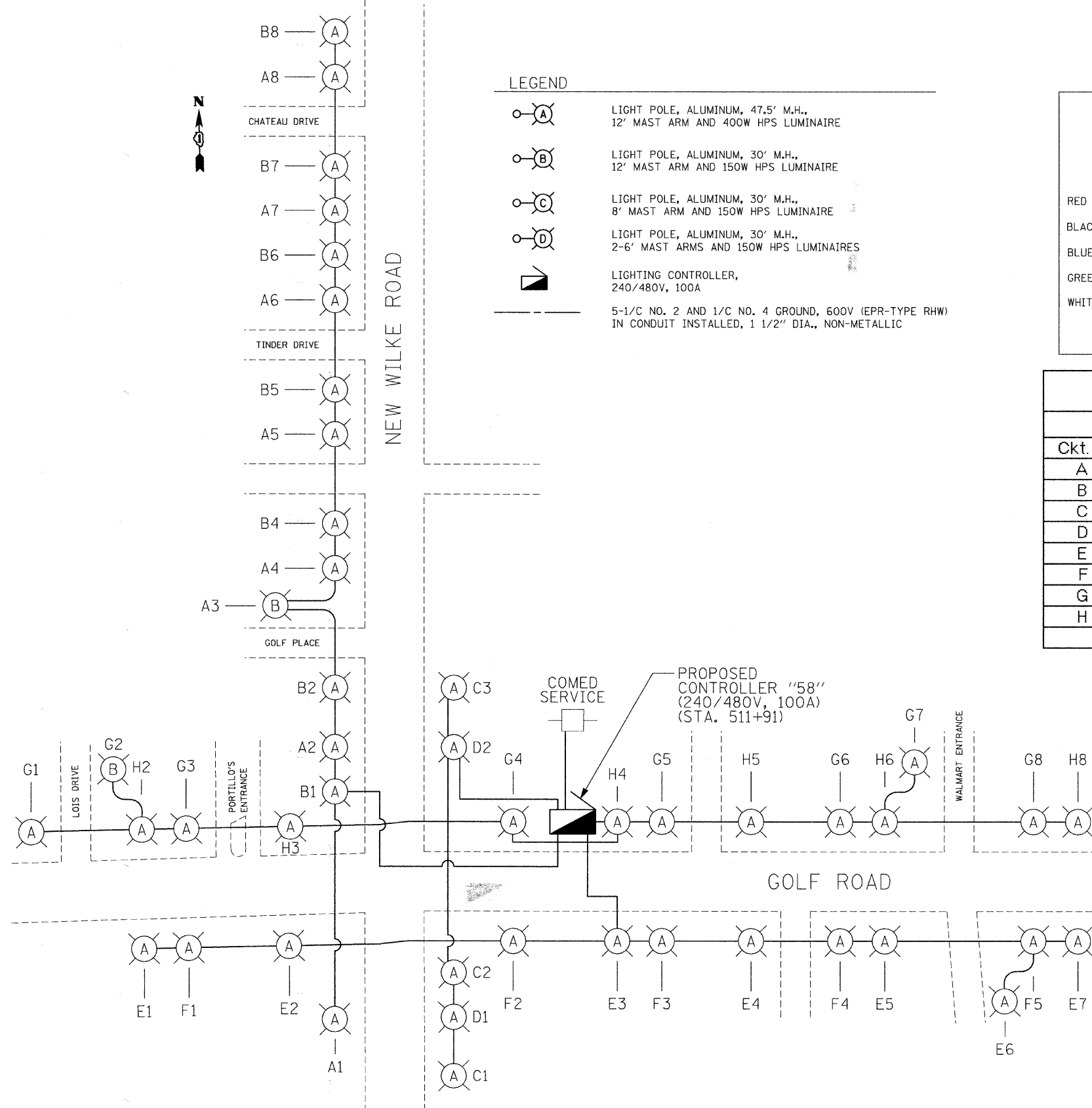
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PLOT SCALE = 200.0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
LIGHTING CONTROLLER "A1" ONE LINE DIAGRAM

SCALE: N.T.S. SHEET NO. 49 OF 64 SHEETS STA. TO STA.

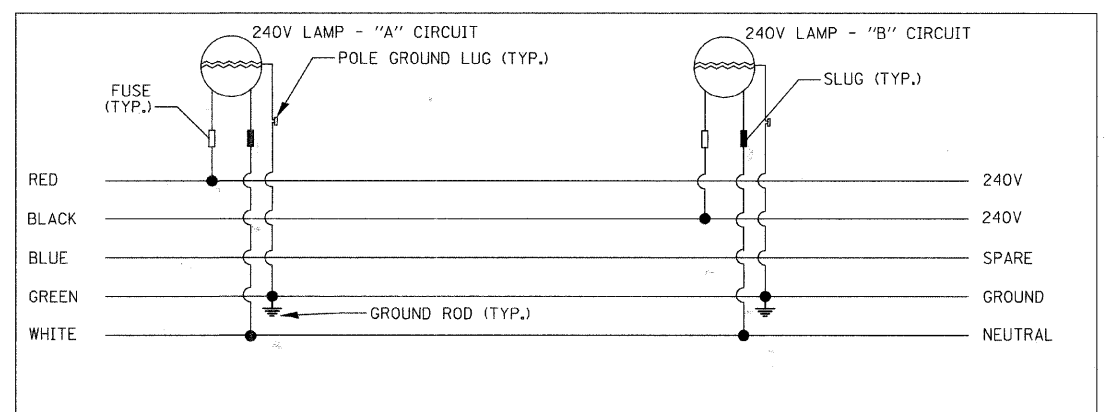
F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 49
CONTRACT NO. 63426				



**LEGEND**

	LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE
	LIGHT POLE, ALUMINUM, 30' M.H., 12' MAST ARM AND 150W HPS LUMINAIRE
	LIGHT POLE, ALUMINUM, 30' M.H., 8' MAST ARM AND 150W HPS LUMINAIRE
	LIGHT POLE, ALUMINUM, 30' M.H., 2-6' MAST ARMS AND 150W HPS LUMINAIRES
	LIGHTING CONTROLLER, 240/480V, 100A
	5-1/2 NO. 2 AND 1/2 NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC

**TYPICAL POLE WIRING DIAGRAM**



**Load Tabulation for Lighting Controller 58**

Ckt. #	Description	Phase A (Red) (watts)	Phase B (Black) (watts)
A	1-150W, 7-400W	3540	
B	0-150W, 7-400W		3360
C	0-150W, 3-400W	1440	
D	0-150W, 2-400W		960
E	0-150W, 7-400W	3360	
F	0-150W, 5-400W		2400
G	1-150W, 7-400W	3540	
H	0-150W, 6-400W		2880
<b>Totals:</b>		<b>11880</b>	<b>9600</b>

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**Ciorba Group, Inc.**  
CONSULTING ENGINEERS  
5507 North Cumberland Avenue, Suite 402  
Chicago, Illinois 60656  
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = jvondra	DESIGNED - RJR	REVISED -
PLOT SCALE = 200.0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
LIGHTING CONTROLLER "58" ONE LINE DIAGRAM**

SCALE: N.T.S. SHEET NO. 50 OF 64 SHEETS STA. TO STA.

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 50
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

CENTRAL ROAD

WEBER DRIVE

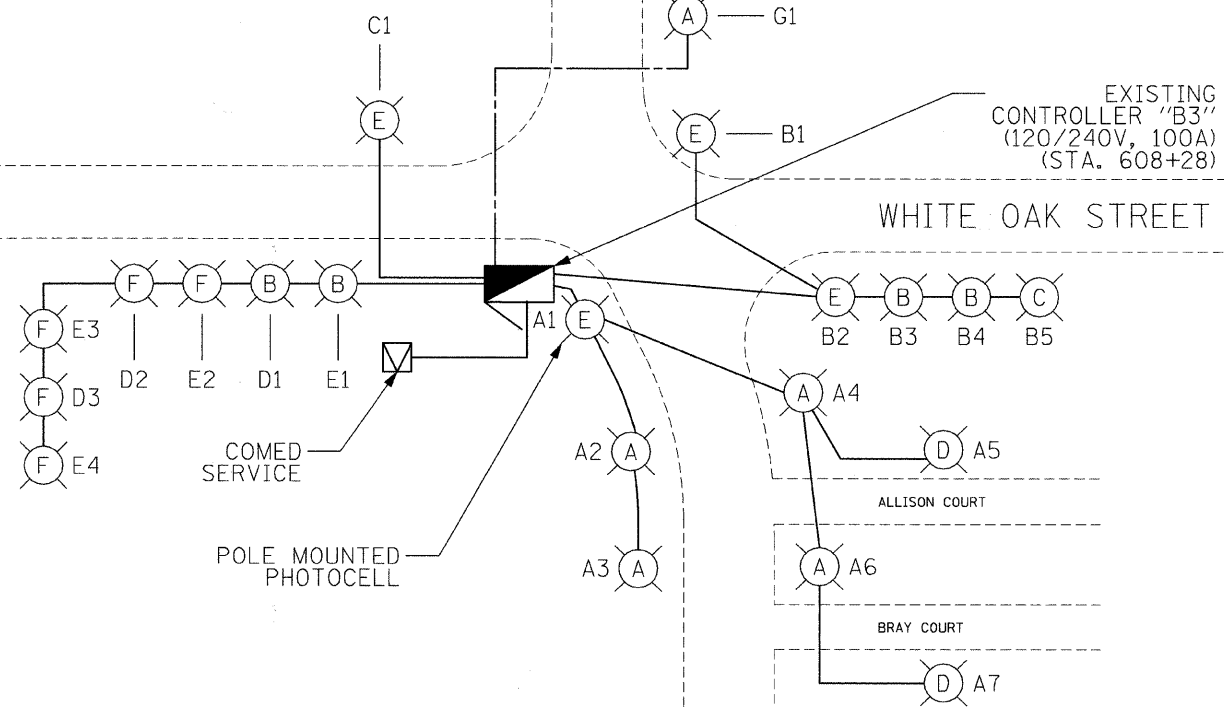
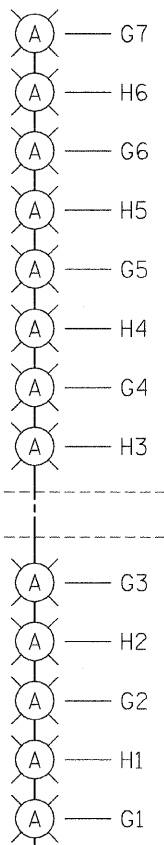
NEW WILKE ROAD

GOLF COURSE ENTRANCE

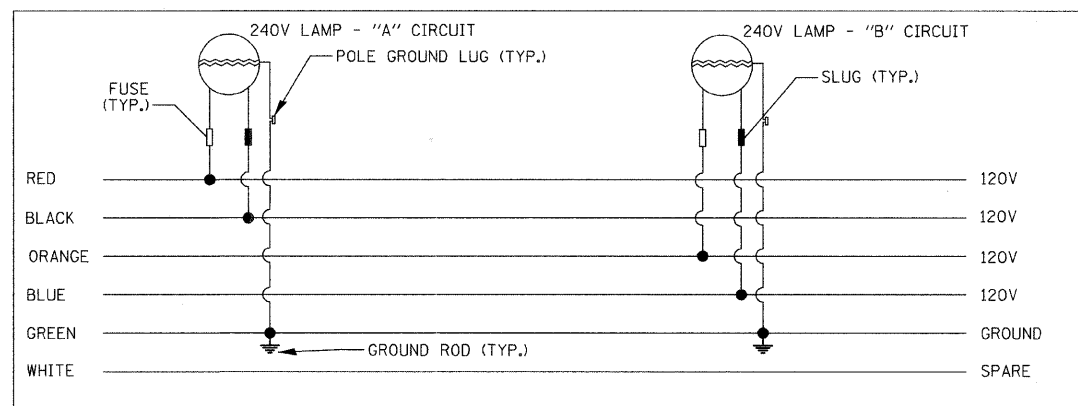
WHITE OAK STREET

ALLISON COURT

BRAY COURT



TYPICAL POLE WIRING DIAGRAM



Ckt. #	Description	Phase A (Red) (watts)	Phase B (Black) (watts)
A	0-100W, 0-150W, 2-250W, 5-400W	3000	
B	0-100W, 2-150W, 1-250W, 2-400W		1620
C	0-100W, 0-150W, 0-250W, 1-400W	480	
D	2-100W, 1-150W, 0-250W, 0-400W		420
E	3-100W, 1-150W, 0-250W, 0-400W	540	
G	0-100W, 0-150W, 0-250W, 7-400W	3360	
H	0-100W, 0-150W, 0-250W, 6-400W		2880
<b>Totals:</b>		<b>7380</b>	<b>4920</b>

LEGEND

- LIGHT POLE, ALUMINUM, 47.5' M.H., 12' MAST ARM AND 400W HPS LUMINAIRE
- LIGHT POLE, ALUMINUM, 30' M.H., 15' MAST ARM AND 150W HPS LUMINAIRE
- LIGHT POLE, ALUMINUM, 30' M.H., 15' MAST ARM AND 250W HPS LUMINAIRE
- LIGHT POLE, CONCRETE, 30' M.H., 8' MAST ARM AND 250W HPS LUMINAIRE
- COMBO POLE, 47.5' M.H., 15' MAST ARM AND 400W HPS LUMINAIRE
- LIGHT POLE, 30' M.H., 15' MAST ARM AND 100W HPS LUMINAIRE
- LIGHTING CONTROLLER, 120/240V, 100A
- 5-1/2" NO. 2 AND 1/2" NO. 4 GROUND, 600V (EPR-TYPE RHW) IN CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC
- EXISTING CABLES, DIRECT BURIAL, UNKNOWN SIZE

FILE NAME = n:\proj\3379\design\proposals\plan\3379-01\LineF\_B3.dgn

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USER NAME = jvandra	DESIGNED - RJR	REVISED -
PLOT SCALE = 200.0000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -

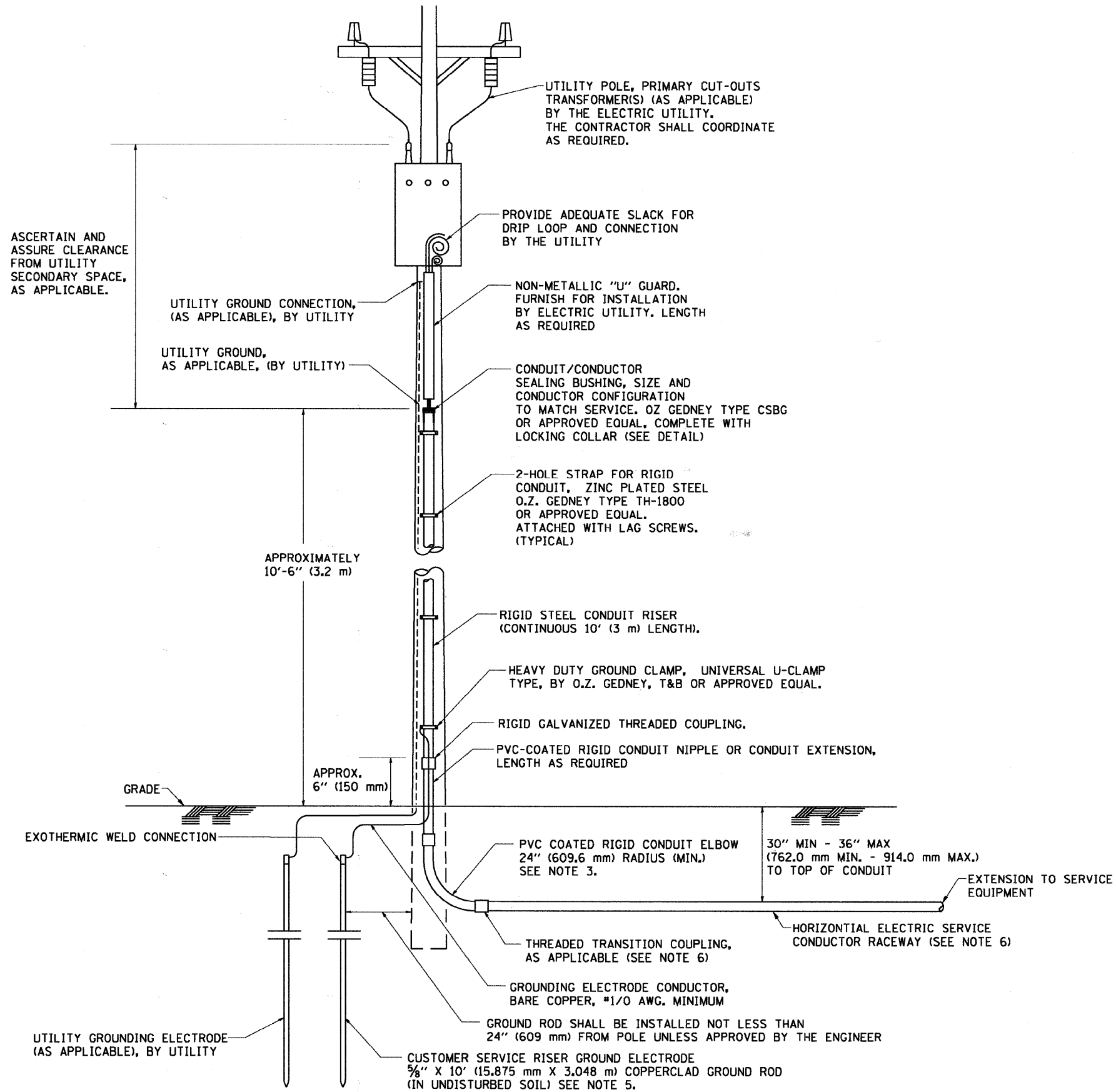
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
LIGHTING CONTROLLER "B3" ONE LINE DIAGRAM

SCALE: N.T.S. SHEET NO. 51 OF 64 SHEETS STA. TO STA.

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 51
CONTRACT NO. 63426				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

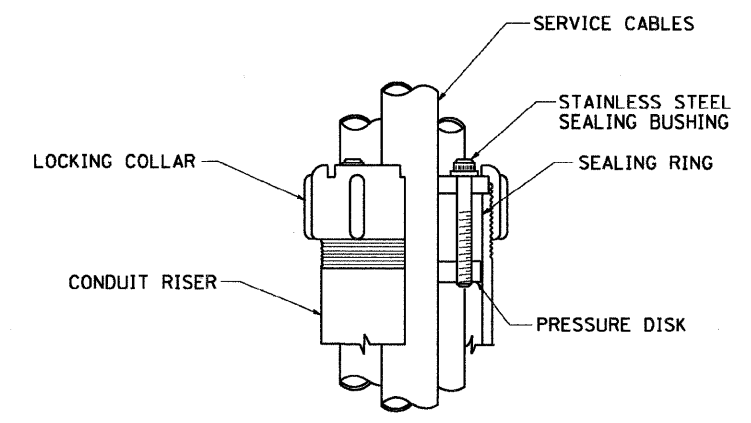


**APPLICATION**

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

**NOTES**

- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.

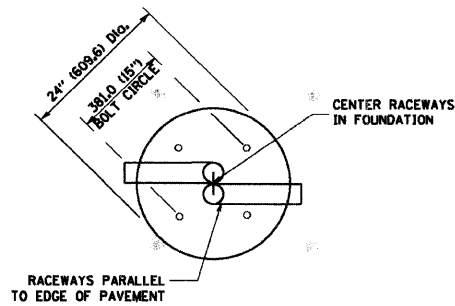


**SEALING BUSHING DETAIL**

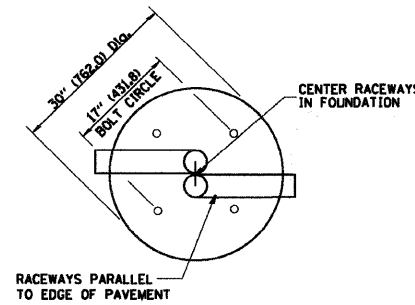
FILE NAME = W:\data\td\22x34\be22b.dgn	USER NAME = geglienobt	DESIGNED -	REVISED - 03-03-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ELECTRIC SERVICE INSTALLATION AERIAL REMOTE DISCONNECT</b>			F.A. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	339	09-00100-00-LT	COOK	64	52
		CHECKED - MEA	REVISED -					<b>BE-220</b>			<b>CONTRACT NO.</b>		
		DATE -	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

**LIGHT POLE FOUNDATION DEPTH TABLE**  
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

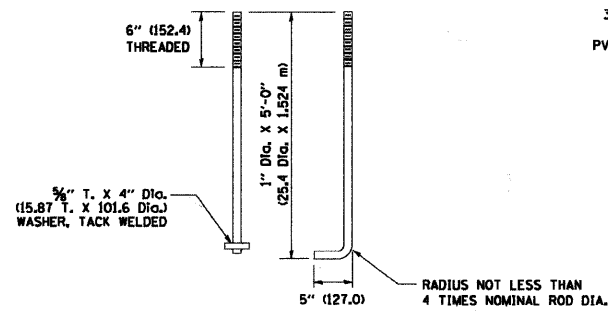
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-6" (2.93 m)	10'-9" (3.23 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND φ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND φ = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND φ = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)



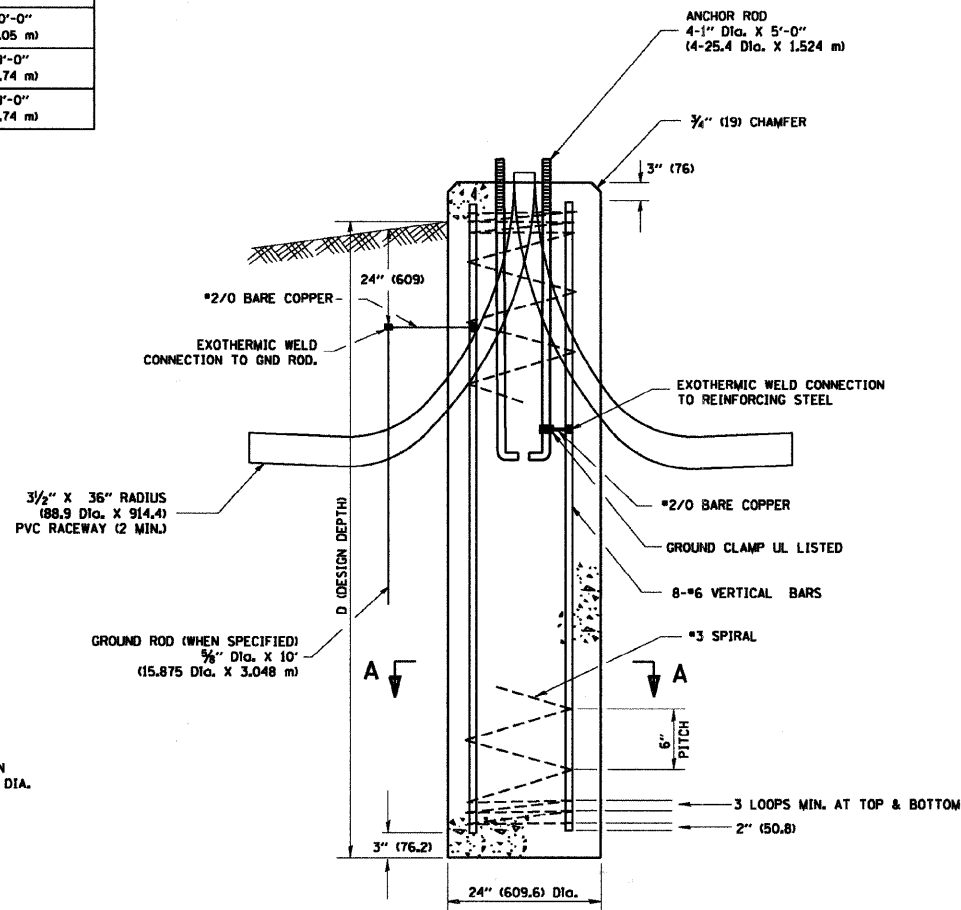
**TOP VIEW**



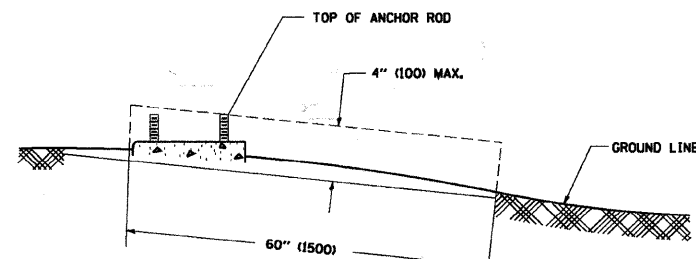
**TOP VIEW**



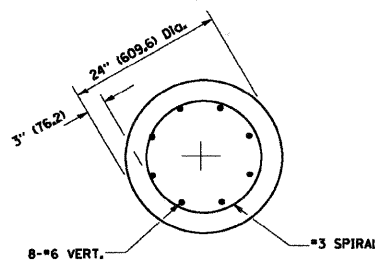
**ANCHOR ROD DETAIL**



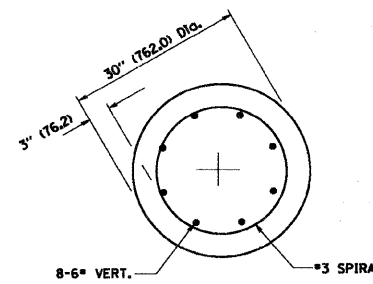
**FOUNDATION DETAIL**



**FOUNDATION EXTENSION DETAIL**



**SECTION A-A**

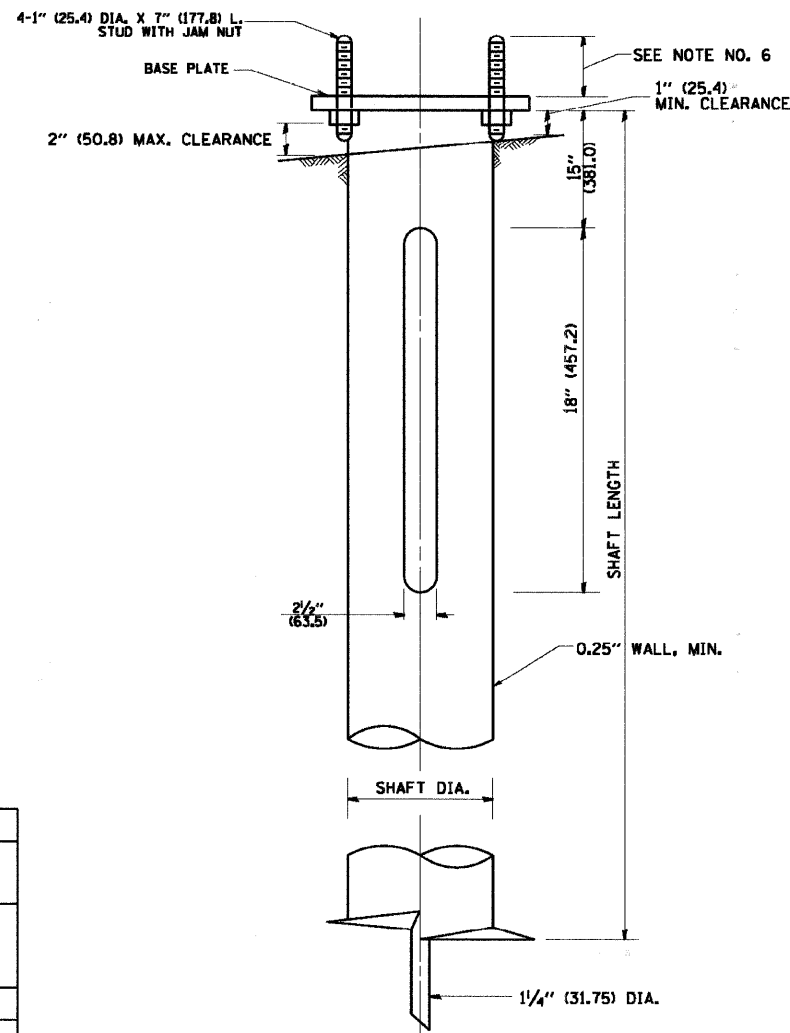
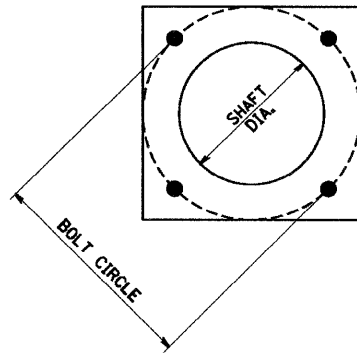


**SECTION A-A**

**NOTES**

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED. IN ACCORDANCE WITH AASHTO GUIDELINES, IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION, IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS S1. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UMG (MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

FILE NAME = W:\distat\22x34\be381.dgn	USER NAME = geglierobt	DESIGNED - DRAWN -	REVISED - REVISED -	04-22-02	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LIGHT POLE FOUNDATION</b>		F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -			40' (12.192 m) TO 47' 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE	339	09-00100-00-LT	COOK	64	53	
	PLOT DATE = 1/4/2008	DATE -	REVISED -			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. BE-301		
								FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				



**HELIX FOUNDATION SIZE**

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	1 1/2"	8 5/8"	6 FT.	12"x12"x1"
31 FT.-35 FT.	1 1/2"	8 5/8"	6 FT.	12"x12"x1"
36 FT.-40 FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
41 FT.-45 FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1 1/4"

**METAL HELIX FOUNDATION MATERIALS**

ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

**NOTES:**

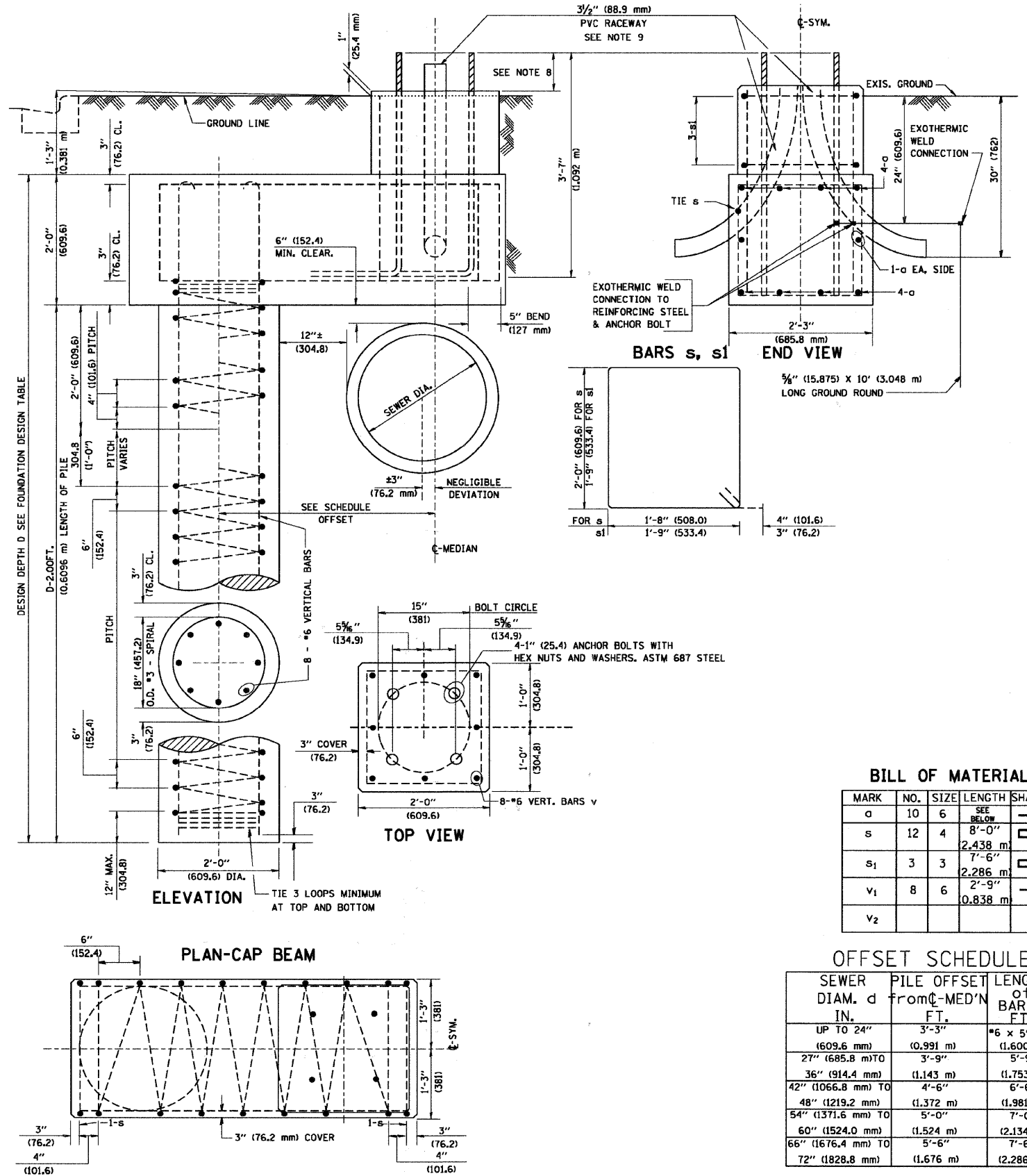
1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1/4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDATION IS NOT ALLOWED.
9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
10. THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS ( $\pm 1^\circ$ ) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC ( $\pm 0.188$ ) TO THE SHAFT AXIS.
11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC ( $\pm 0.125$ ) AND IN LINE ( $\pm 2^\circ$ ).
12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.

FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0" (3.962 m)	15'-0" (4.572 m)	8-#6X12'-6" (3.810 m)	*3X122' (37.186 m)	8-#6X14'-3" (4.343 m)	*3X141' (42.977 m)
MEDIUM CLAY	9'-6" (2.896 m)	10'-9" (3.277 m)	8-#6X9'-0" (2.743 m)	*3X90' (27.432 m)	8-#6X10'-0" (3.048 m)	*3X100' (30.480 m)
STIFF CLAY	7'-0" (2.134 m)	8'-0" (2.438 m)	8-#6X6'-6" (1.981 m)	*3X66' (20.112 m)	8-#6X7'-6" (2.286 m)	*3X76' (23.165 m)
LOOSE SAND	9'-0" (2.743 m)	10'-0" (3.048 m)	8-#6X8'-6" (2.591 m)	*3X85' (25.908 m)	8-#6X9'-6" (2.896 m)	*3X94' (28.651 m)
MEDIUM SAND	8'-3" (2.515 m)	9'-0" (2.743 m)	8-#6X8'-0" (2.438 m)	*3X78' (23.774 m)	8-#6X8'-6" (2.591 m)	*3X85' (25.908 m)
DENSE SAND	7'-9" (2.362 m)	9'-0" (2.743 m)	8-#6X7'-6" (2.286 m)	*3X73' (22.250 m)	8-#6X8'-6" (2.591 m)	*3X85' (25.908 m)
ROCK OR SOLIDIFIED SLAG	5'-0" (1.524 m)	5'-0" (1.524 m)	NONE	NONE	NONE	NONE

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
- EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
- RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERRECTED.



BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	8'-0" (2.438 m)	□
s <sub>1</sub>	3	3	7'-6" (2.286 m)	□
v <sub>1</sub>	8	6	2'-9" (0.838 m)	—
v <sub>2</sub>				

OFFSET SCHEDULE

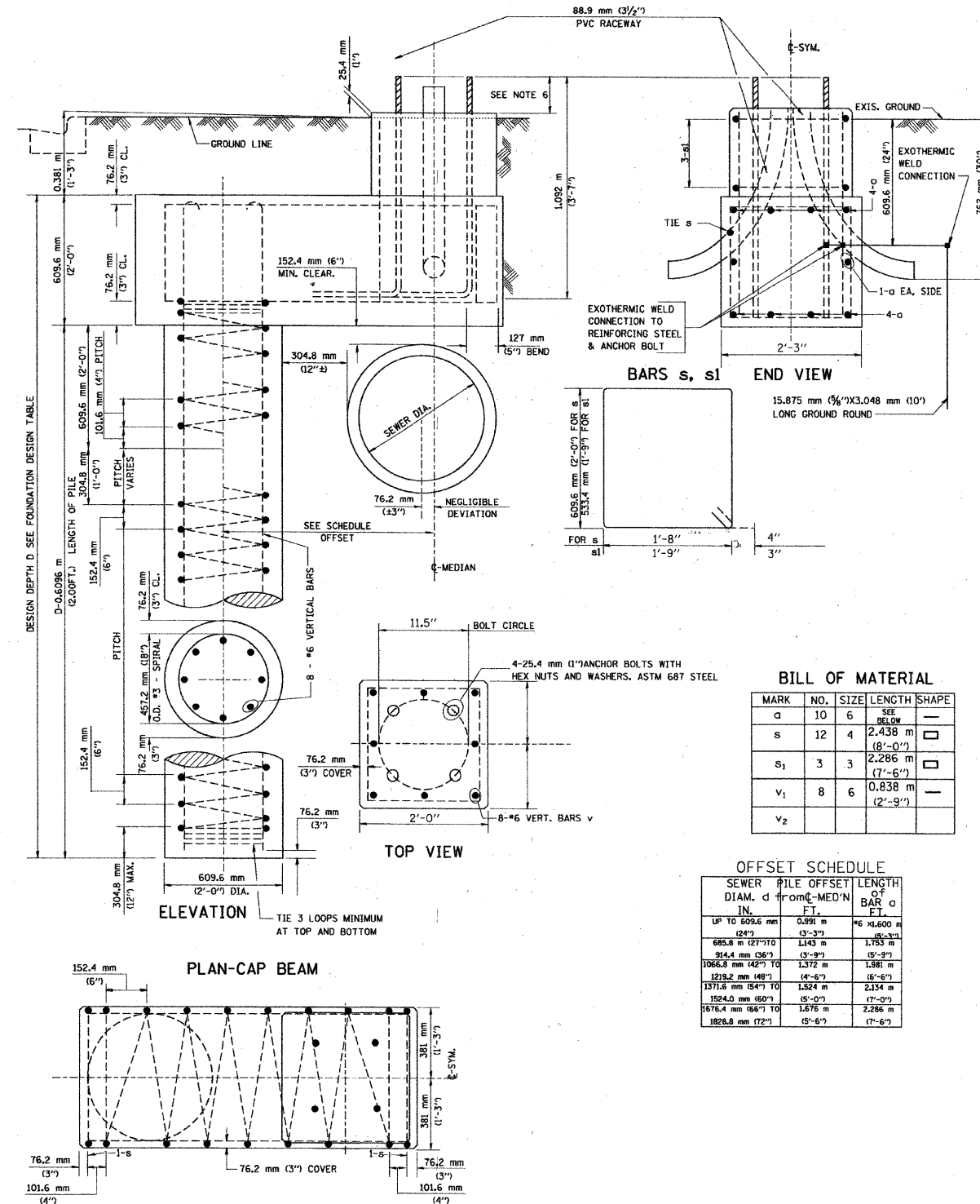
SEWER DIAM. d IN.	PILE OFFSET FROM C-MED'N FT.	LENGTH OF BAR a FT.
UP TO 24" (609.6 mm)	3'-3" (0.991 m)	*6 x 5'-3" (1.600 m)
27" (685.8 mm) TO	3'-9" (1.143 m)	5'-9" (1.753 m)
36" (914.4 mm)	4'-6" (1.372 m)	6'-6" (1.981 m)
42" (1066.8 mm) TO	5'-0" (1.524 m)	7'-0" (2.134 m)
48" (1219.2 mm) TO	5'-6" (1.676 m)	7'-6" (2.286 m)
54" (1371.6 mm) TO	6'-0" (1.828 m)	8'-0" (2.438 m)
60" (1524.0 mm) TO	6'-6" (1.981 m)	8'-6" (2.591 m)
66" (1676.4 mm) TO	7'-0" (2.134 m)	9'-0" (2.743 m)
72" (1828.8 mm)	7'-6" (2.286 m)	9'-6" (2.896 m)

FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	3.962 m (13'-0")	4.572 m (15'-0")	8-#6X3.810 m (12'-6")	#3X37.186 m (122')	8-#6X4.343 m (14'-3")	#3X42.977 m (141')
MEDIUM CLAY	2.896 m (9'-6")	3.277 m (10'-9")	8-#6X2.743 m (9'-0")	#3X27.432 m (90')	8-#6X3.048 m (10'-0")	#3X30.480 m (100')
STIFF CLAY	2.134 m (7'-0")	2.438 m (8'-0")	8-#6X1.981 m (6'-6")	#3X20.112 m (66')	8-#6X2.286 m (7'-6")	#3X23.165 m (76')
LOOSE SAND	2.743 m (9'-0")	3.048 m (10'-0")	8-#6X2.591 m (8'-6")	#3X25.908 m (85')	8-#6X2.896 m (9'-6")	#3X28.651 m (94')
MEDIUM SAND	2.515 m (8'-3")	2.743 m (9'-0")	8-#6X2.438 m (8'-0")	#3X23.774 m (78')	8-#6X2.591 m (8'-6")	#3X25.908 m (85')
DENSE SAND	2.362 m (7'-9")	2.743 m (9'-0")	8-#6X2.286 m (7'-6")	#3X22.250 m (73')	8-#6X2.591 m (8'-6")	#3X25.908 m (85')
ROCK OR SOLIDIFIED SLAG	1.524 m (5'-0")	1.524 m (5'-0")	NONE	NONE	NONE	NONE

NOTES

- 1.) THE ENGINEER WILL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF THE FOUNDATION FROM THE DESIGN TABLE.
- 2.) EXCAVATION OF THE POLE FOUNDATION MUST BE MADE WITH AN AUGER, 24" OR 30" IN DIAMETER.
- 3.) THE ANCHOR MUST BE A TACK WELDED TYPE BOLT OR HOOK TYPE BOLT. COLD BENDING OF THE HOOK BOLT IS NOT ALLOWED.
- 4.) THE ANCHOR BOLTS AND RACEWAYS MUST BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- 5.) THE ENTIRE LENGTH OF THE ANCHOR BOLTS, AS WELL AS THE NUTS AND WASHERS, MUST BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM DESIGNATION A 153.
- 6.) THE CONTRACTOR MUST COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE THE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT A BREAKAWAY DEVICE, ANCHOR BOLTS MUST COORDINATE WITH THE POLE MANUFACTURER'S REQUIREMENTS.
- 7.) THE CONTRACTOR MUST COORDINATE THE ANCHOR BOLT CIRCLE WITH THE LIGHT POLE MANUFACTURER'S RECOMMENDATIONS.
- 8.) RACEWAYS MUST PROJECT 1" ABOVE THE TOP OF FOUNDATION.
- 9.) CONCRETE SHALL BE CLASS "SI". CONCRETE FOUNDATIONS MUST BE CURED FOR TEN (10) DAYS BEFORE THE LIGHT STANDARD IS ERECTED.
- 10.) THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT STANDARD IS ERECTED.



BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	2,438 m (8'-0")	□
s <sub>1</sub>	3	3	2,286 m (7'-6")	□
v <sub>1</sub>	8	6	0,838 m (2'-9")	—
v <sub>2</sub>				

OFFSET SCHEDULE

SEWER PILE DIAM. d	PILE OFFSET FROM MED'N	LENGTH OF BAR o	LENGTH OF BAR o
IN.	FT.	FT.	FT.
UP TO 609.6 mm (24")	0.991 m (3'-3")	#6 x1.600 m (5'-3")	1.753 m (5'-9")
609.6 mm (24") TO 914.4 mm (36")	1.143 m (3'-9")	1.753 m (5'-9")	1.981 m (6'-6")
914.4 mm (36") TO 1066.8 mm (42")	1.372 m (4'-6")	1.981 m (6'-6")	2.154 m (7'-1")
1066.8 mm (42") TO 1219.2 mm (48")	1.524 m (5'-0")	2.154 m (7'-1")	2.286 m (7'-6")
1219.2 mm (48") TO 1371.6 mm (54")	1.524 m (5'-0")	2.286 m (7'-6")	2.286 m (7'-6")
1371.6 mm (54") TO 1524.0 mm (60")	1.676 m (5'-6")	2.286 m (7'-6")	
1524.0 mm (60") TO 1676.4 mm (66")	1.676 m (5'-6")		
1676.4 mm (66") TO 1828.8 mm (72")	1.676 m (5'-6")		

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Tel. 773.775.4009 Fax 773.775.4014

USER NAME = jvanda	DESIGNED - RJR	REVISED -
PLOT SCALE = 1:8000' / IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -

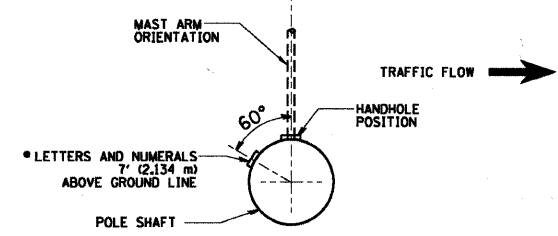
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
LIGHT POLE FOUNDATION, OFFSET, 30" M.H., 11.5" BOLT CIRCLE

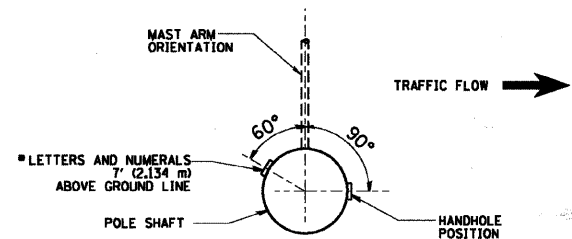
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F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 56
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

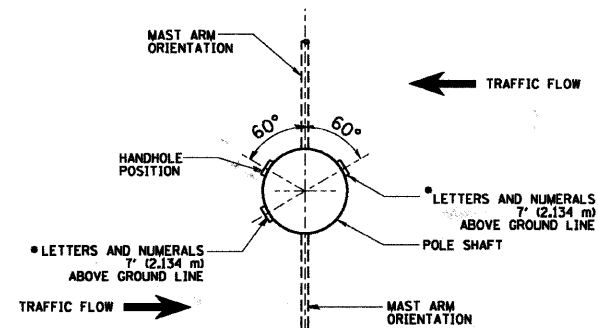




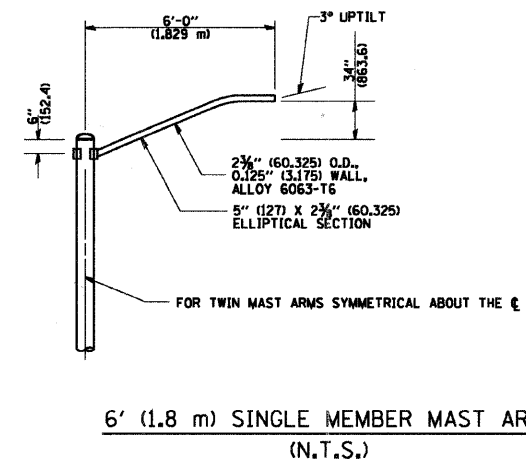
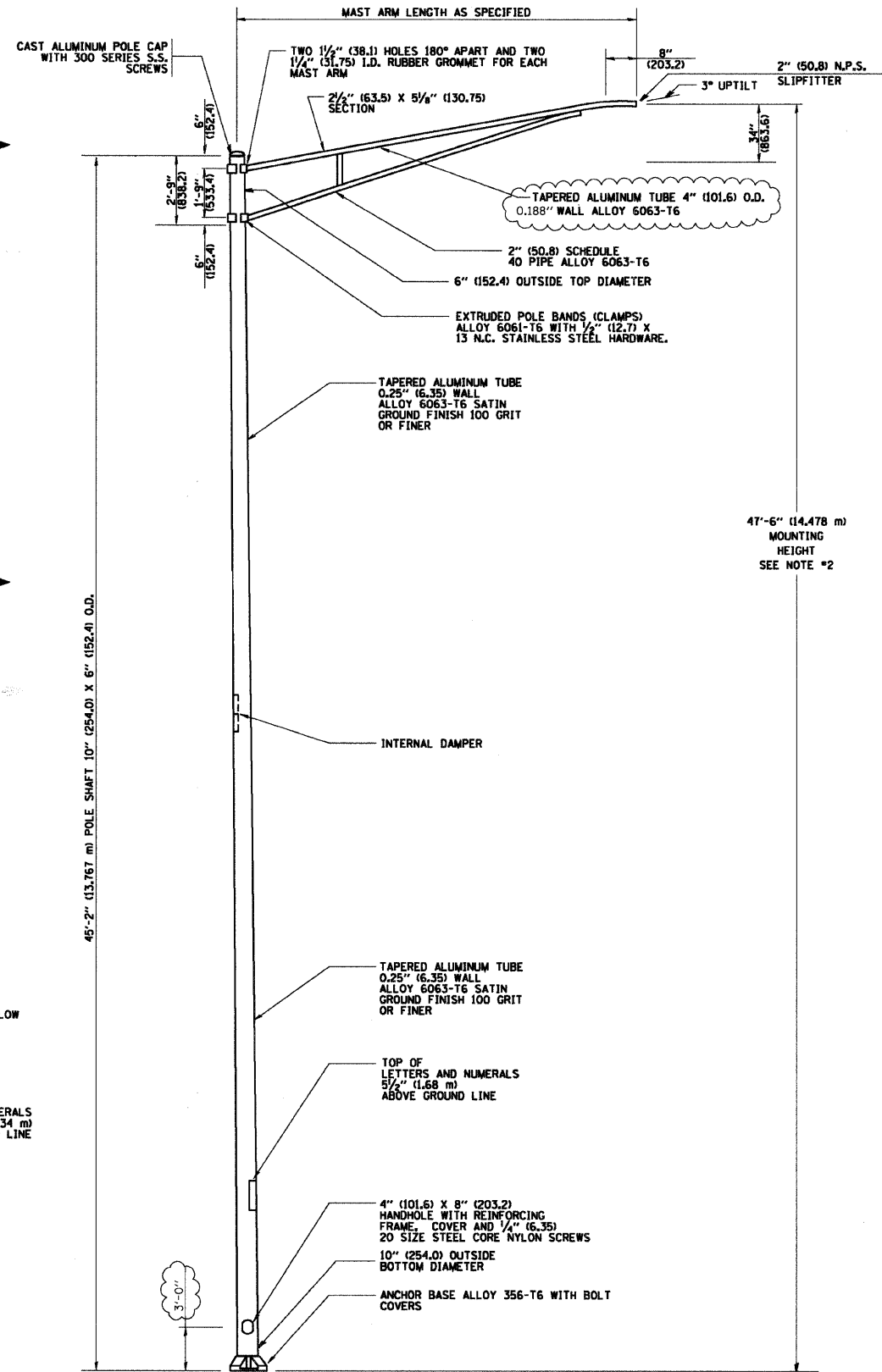
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



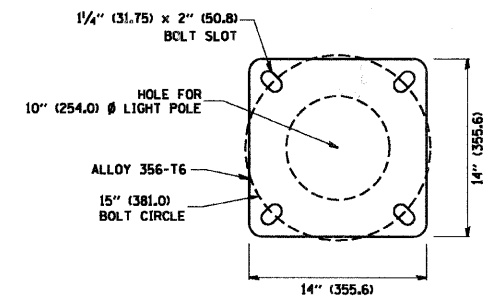
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



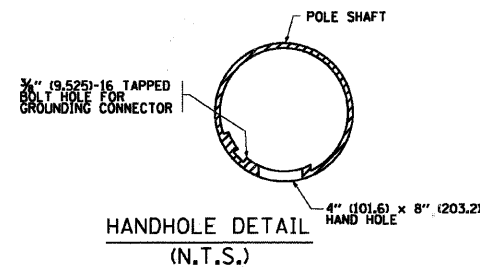
POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES



- NOTES:**
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
  2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
  3. NOT USED.
  4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
  5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
  6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
  7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
  8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



LIGHT POLE BASE PLATE DETAIL  
15 INCH (381.0) BOLT CIRCLE



HANDHOLE DETAIL  
(N.T.S.)

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USER NAME = jvandra	DESIGNED - RJR	REVISED -
PLOT SCALE = 1:8000	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -

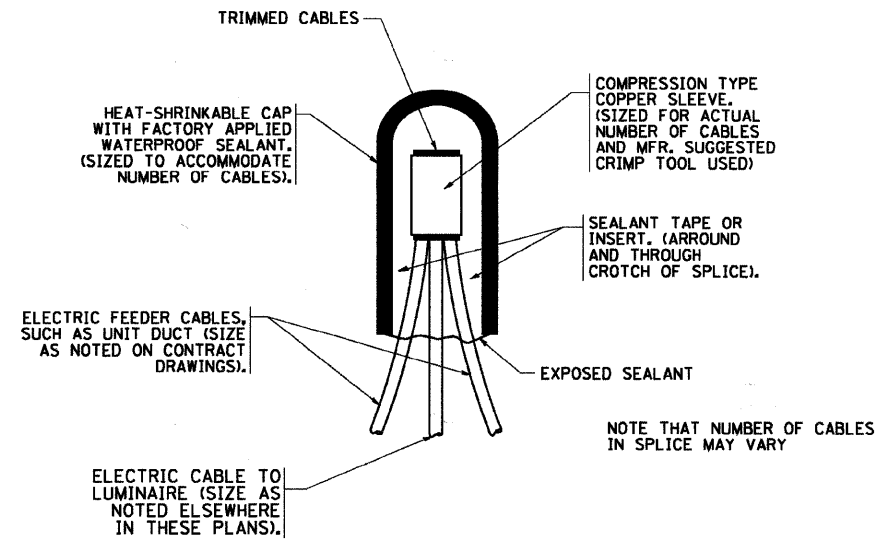
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
ALUMINUM LIGHT POLE, 47'-6" MOUNTING HEIGHT

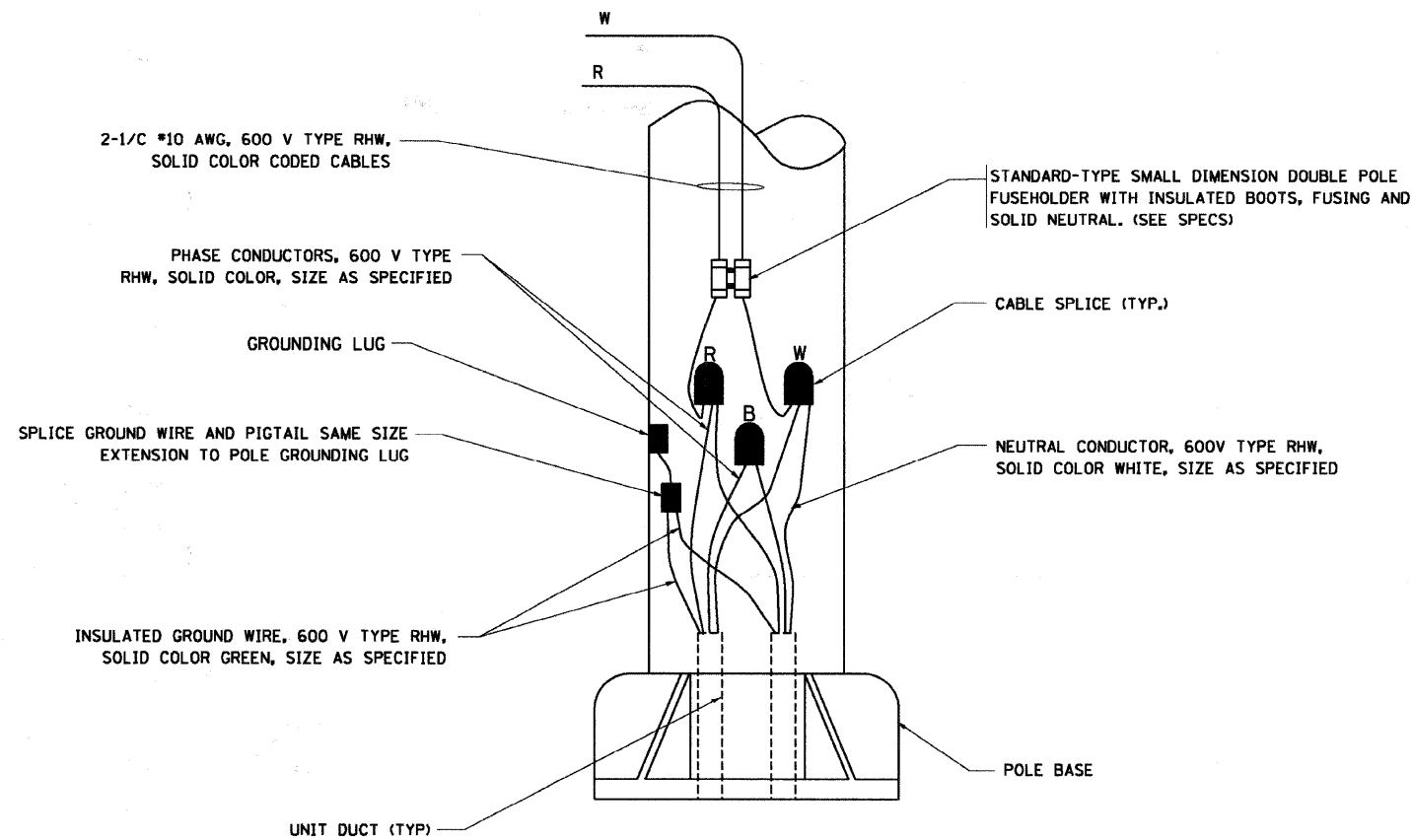
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

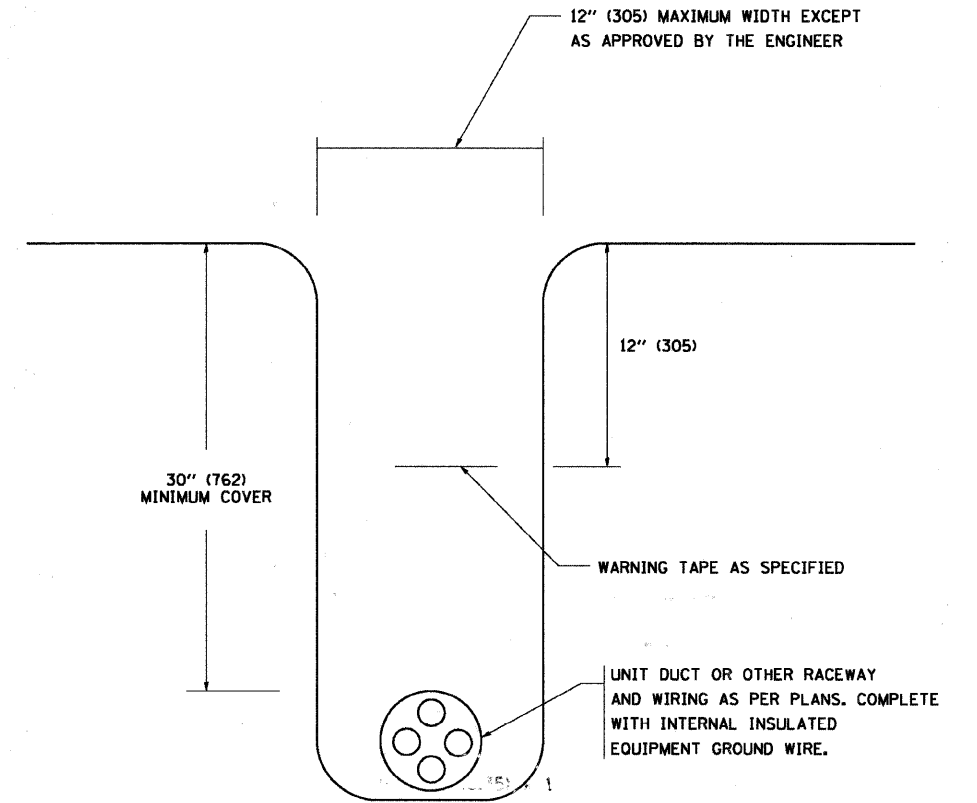




**TYPICAL SPLICE DETAIL**  
N.T.S.

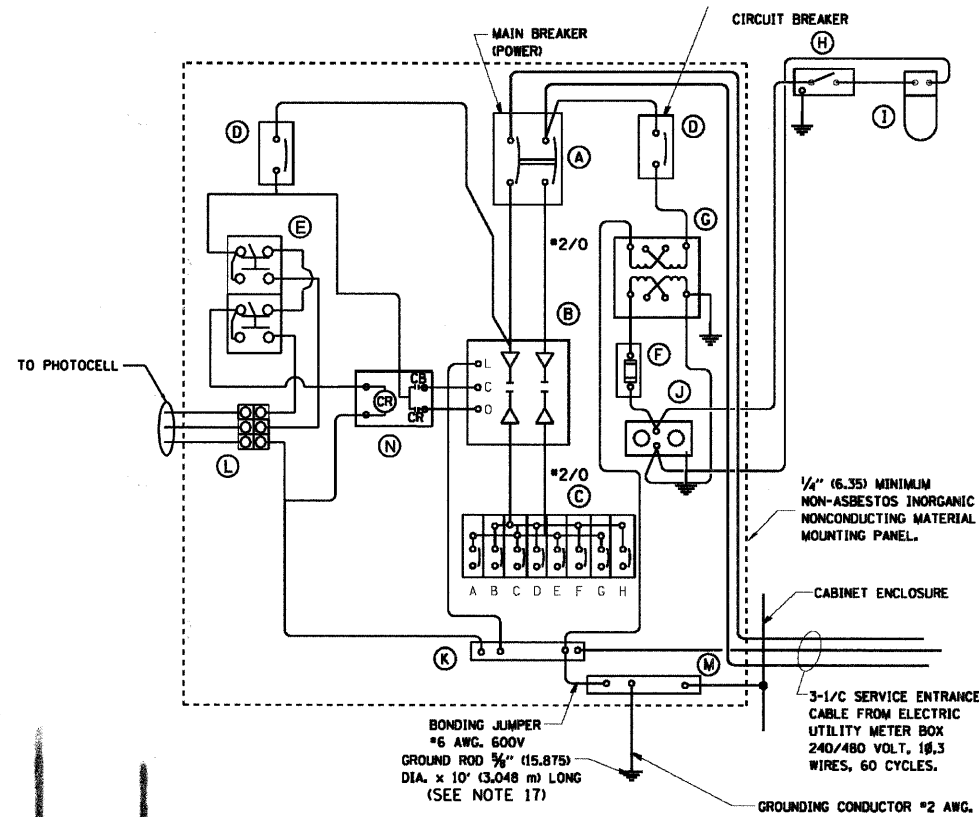


**POLE WIRING DETAIL**  
N.T.S.



**TYPICAL WIRING IN TRENCH DETAIL**  
N.T.S.

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		DATE -	REVISED -									

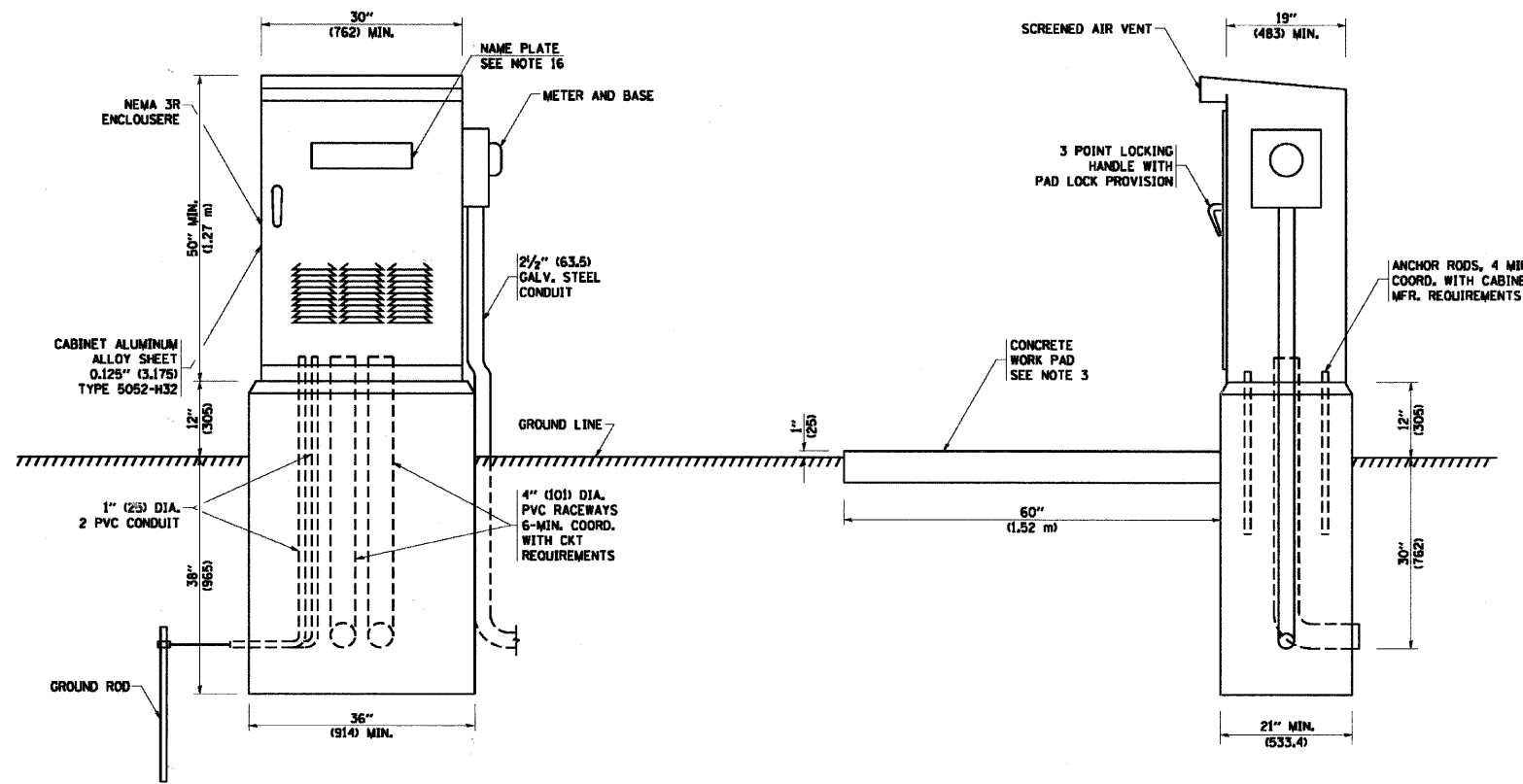


**PANEL WIRING DIAGRAM**

**PANEL EQUIPMENT**

BILL OF MATERIAL		
ITEM	QUANTITY	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100 AMP. FRAME, 100 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 480 VOLT.
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 240 VOLT.
C	*	CIRCUIT BREAKERS, 1 POLE, 100AMP. FRAME, 50 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 240 V.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 V., 100 AMP. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-5000 AMP. AT 240 V.
E	1	HAND-OFF-AUTOMATIC SWITCH SQUARE D 9001 KYK-III OR EQUIVALENT
F	1	20 A., 120 V. FUSE.
G	1	1.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER 240 X 480 / 120 X 240 VOLT, 60 HZ.
H	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20 A., 120 V., DUPLEX RECEPTACLE, GFCI.
K	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
L	1	PHOTOCELL TERMINAL BLOCK
M	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS
N	1	RELAY, DPDT, 240V
	1	CABINET MOUNT, BUTTON TYPE PHOTOCELL

\* = AS NEEDED. SEE ONE LINE DIAGRAM.



**NOTES:**

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
- IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL. LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) x 60" (18.288 m) x 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
- DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1/4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
- CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.  
R = RED      BL = BLUE      W = WHITE  
B = BLACK    Y = YELLOW      G = GREEN
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
- WHEN A SERVICE INSTALLATION, TYPE C IS SPECIFIED, THE BONDING JUMPER SHALL BE OMITTED.

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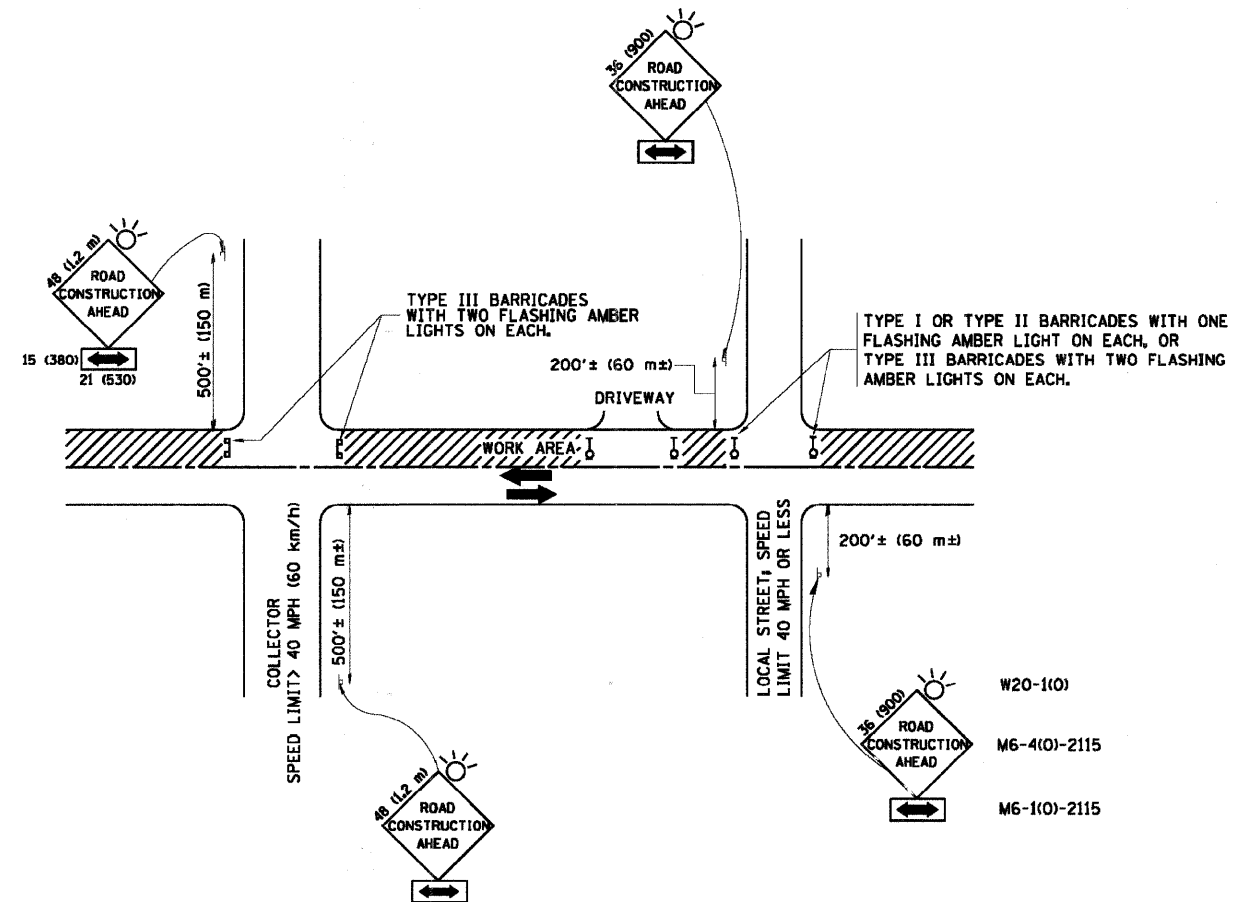
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PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
LIGHTING CONTROLLER, SPECIAL**

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	09-00100-00-LT	COOK	64	60
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



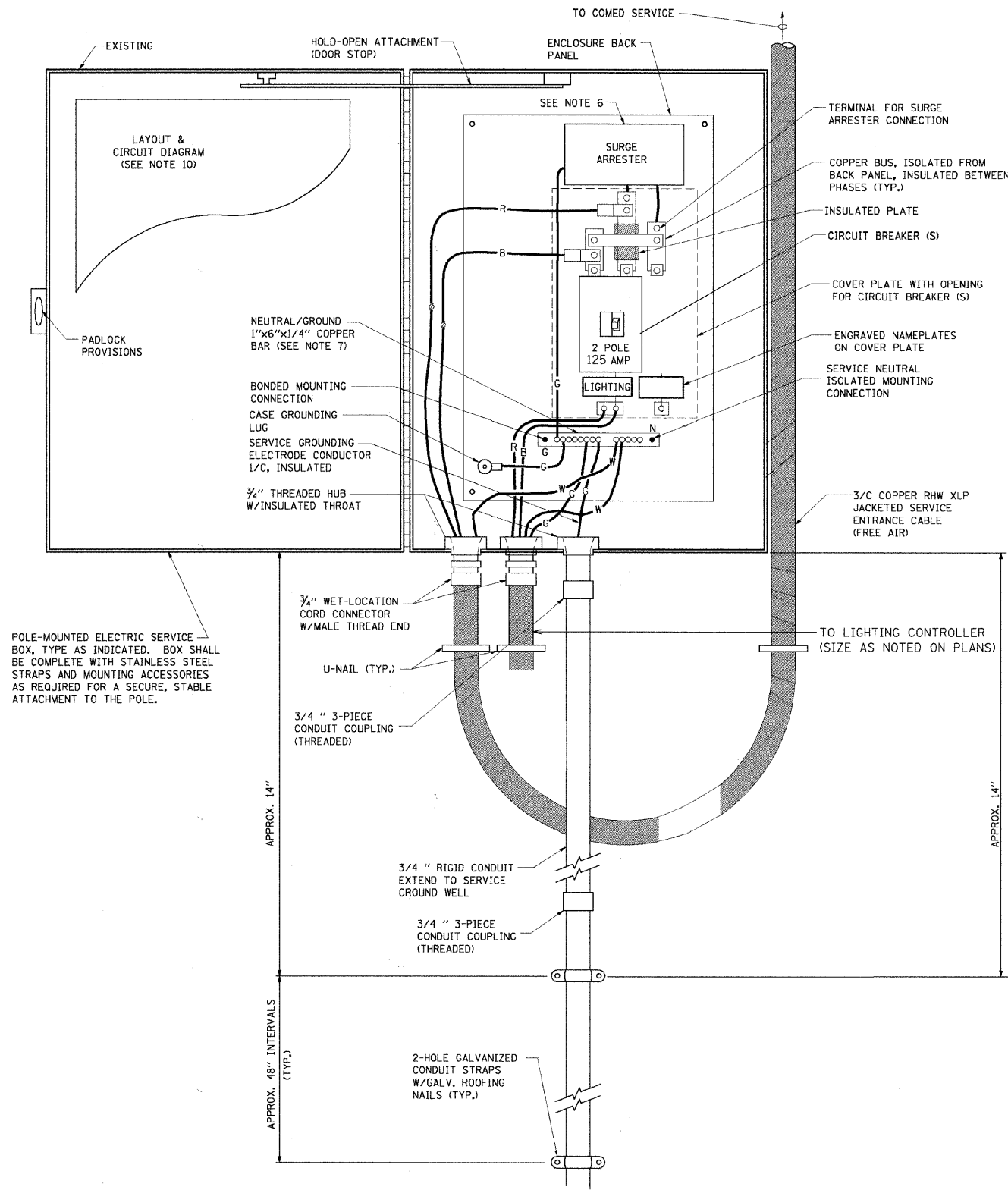
**TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

**NOTES:**

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS**
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
    - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
  - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
    - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:**
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.**
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.**

All dimensions are in millimeters (inches) unless otherwise shown.

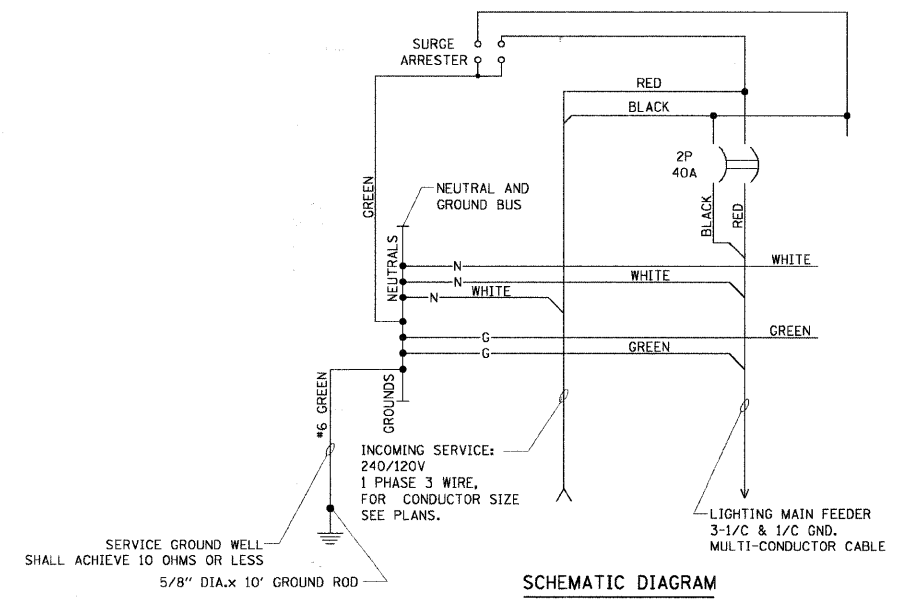
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	PLLOT SCALE = 50,000' / IN.	DRAWN -	REVISED - A. HOUSEH 03-06-96		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	<b>TC-10</b>		<b>CONTRACT NO.</b>		
	PLLOT DATE - 1/4/2009	CHECKED -	REVISED - A. HOUSEH 10-15-96		<b>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</b>							
		DATE - 06-89	REVISED - T. RAMMACHER 01-06-00									



POLE-MOUNTED ELECTRIC SERVICE ENTRANCE  
GENERAL LAYOUT DIAGRAM  
NOT TO SCALE

NOTES:

- ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED OR DESIGNATED BY THE ENGINEER, AND SERVICE DROP CABLE SHALL BE COMPATIBLE WITH THE SERVICE ACCORDINGLY. SOME INSTALLATIONS MAY CALL FOR SERVICE ENTRANCE EQUIPMENT SUITABLE FOR 3-WIRE SERVICE EVEN THOUGH INITIALLY WIRED FOR 2-WIRE SERVICE.
- THE POLE-MOUNTED ELECTRIC SERVICE BOX SHALL BE CONFIGURED AND FULLY EQUIPPED FOR 240/120V 3W SERVICE, COMPLETE WITH LIGHTING MAIN BREAKER.
- THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.
- THE ELECTRIC SERVICE EQUIPMENT ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12"W X 16"H X 8"D, WITH A PIANO-HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS AND DOOR STOP, HOFFMAN CATALOG NO. A-16H120856LP/A-16 P12/A-DSTOPK/C-PMK12, OR APPROVED EQUAL.
- CIRCUIT BREAKER SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. IT SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLE SHALL BE TRIP FREE.
- THE SURGE PROTECTOR SHALL BE SUITABLE FOR THE SERVICE VOLTAGE SINGLE PHASE 60HZ AC, WITH A SURGE ENERGY CAPABILITY OF 2160 JOULES OR BETTER AT 8/20 MICRO-SECONDS, RATED -40 TO 60 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449, CUTLER-HAMMER CMOV230L065XST OR APPROVED EQUAL.
- BUS BARS, CONNECTORS, AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED, AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS, OR THE ASSEMBLY SHALL BE A MANUFACTURED SPECIALTY PANELBOARD, CUTLER-HAMMER PRL2A OR APPROVED EQUAL.
- THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE. THE SERVICE NEUTRAL AND SERVICE GROUNDING ELECTRODE CONDUCTOR SHALL BE TERMINATED ADJACENT TO EACH OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL BE TERMINATED ONLY UPON THE APPROPRIATE SECTION.
- THE WIRING TERMINALS, INCLUDING THE GROUND/NEUTRAL BAR SHALL BE ARRANGED TO PROVIDE ADEQUATE ROOM FOR PERFORMING FIELD TERMINATIONS.
- A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE MECHANICALLY SECURED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
- A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN BREAKER.
- LUGS AND CONNECTORS SHALL BE RATED FOR 75 C CONDUCTOR.
- THE EXACT MOUNTING HEIGHT OF THE BOX SHALL BE FIELD DETERMINED TO AVOID OBSTRUCTIONS AND PUBLIC ACCESS. TYPICAL HEIGHT SHALL BE APPROXIMATELY 10 FEET ABOVE GRADE.



SCHEMATIC DIAGRAM

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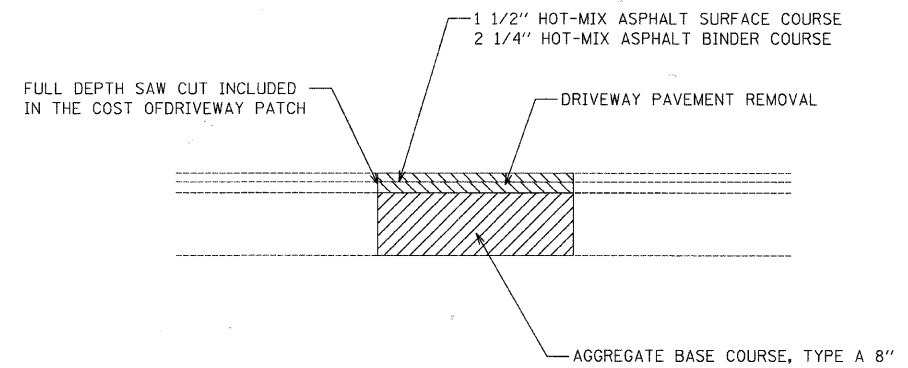
**Ciorba Group, Inc.**  
CONSULTING ENGINEERS  
5507 North Cumberland Avenue, Suite 402  
Chicago, Illinois 60656  
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = jvandra	DESIGNED - RJR	REVISED -
PLOT SCALE = 1,0000' / 1" IN.	DRAWN - RJR	REVISED -
PLOT DATE = 7/12/2010	CHECKED - JMV	REVISED -
	DATE - 6/16/2010	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
SERVICE INSTALLATION, TYPE C (SPECIAL)**

F.A.P. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 62
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



HOT-MIX ASPHALT MIXTURE REQUIREMENTS:

MIXTURE TYPE	AIR VOIDS @ 50 GYR
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL-9.5mm) 1 1/2"	4% @ 50 GYR.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0mm) 2 1/4"	4% @ 50 GYR.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LB/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA, THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR "PERCENT OF RAP", SEE DISTRICT ONE SPECIAL PROVISIONS.

DRIVEWAY PATCHING DETAIL

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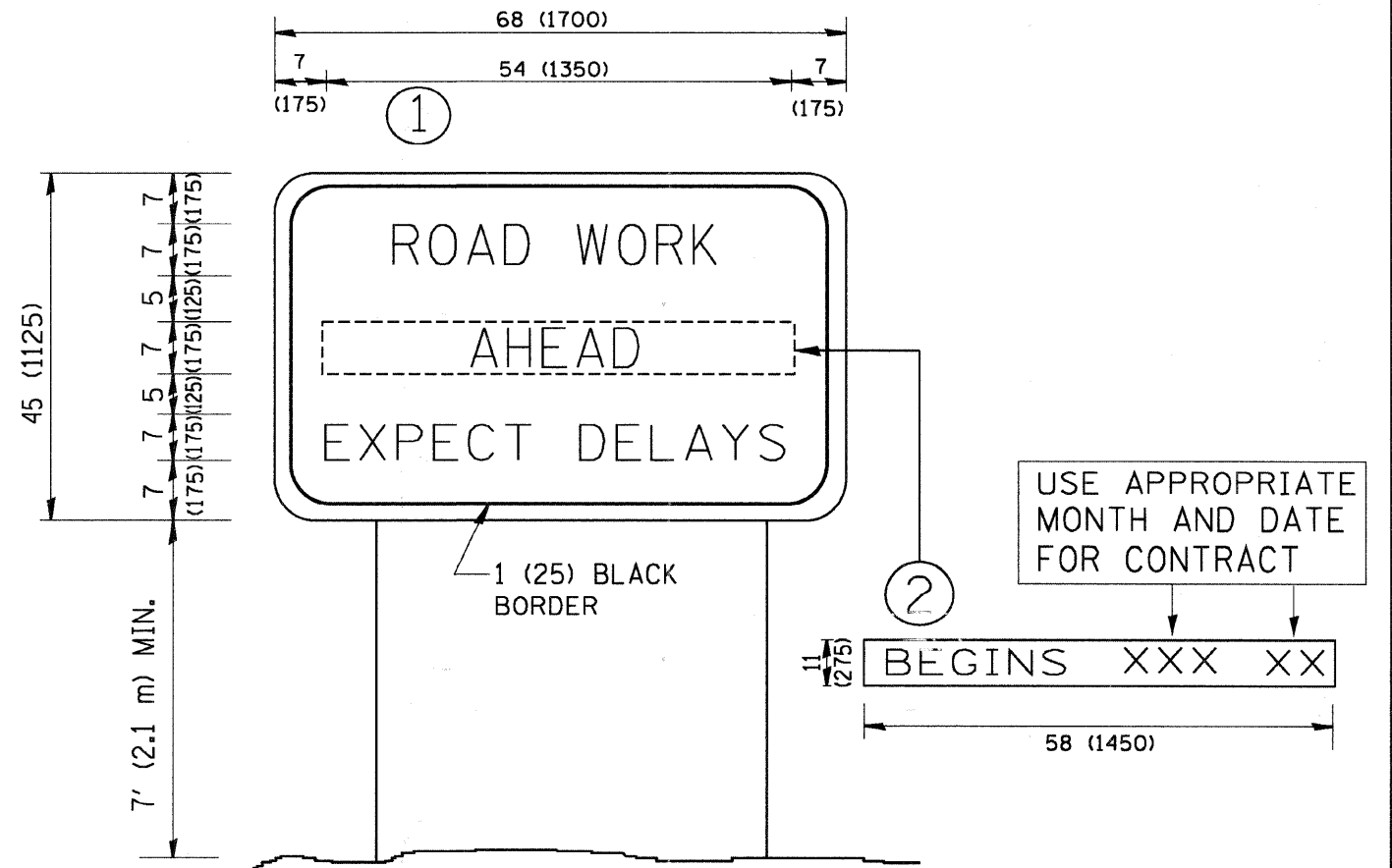
USER NAME = jvondra	DESIGNED - RJR	REVISED -
	DRAWN - RJR	REVISED -
PLOT SCALE = 1,0000' / IN.	CHECKED - JMV	REVISED -
PLOT DATE = 7/12/2010	DATE - 6/16/2010	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALGONQUIN ROAD LIGHTING IMPROVEMENTS  
MISCELLANEOUS DETAILS**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	09-00100-00-LT	COOK	64	63
CONTRACT NO. 63426				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\to22.dgn	USER NAME = geglennobt	DESIGNED -	REVISED - R. MIRS 09-15-97	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ARTERIAL ROAD INFORMATION SIGN</b>			F.A. RTE. 339	SECTION 09-00100-00-LT	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 64
	PLOT SCALE = 60.000' / IN.	DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	<b>TC-22</b>		<b>CONTRACT NO.</b>	
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE -	REVISED - C. JUCIUS 01-31-07									